TOSHIBA
Leading Innovation >>>

OWNER'S MANUAL
Integrated Digital LCD TV

DOLBY DIGITAL **DVB®**

HDMI

40CV550A

HDA51X3200I

Contents

Welcome to Toshiba

- Thank you for purchasing this Toshiba LCD Color television. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

Important Safety Instructions

Be sure to observe the following instructions and precautions to ensure safe use of this TV.

Installation

1) **Always connect the power plug to an appropriate electrical outlet equipped with 220-240V, AC 50Hz.**
Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.
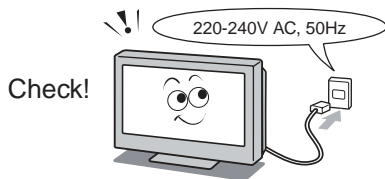
2) **Never insert or remove the power plug with wet hands.**
This may cause an electric shock.
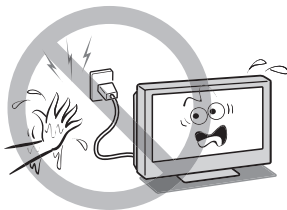
3) **Never place the TV in an unstabilised location such as on a shaky table, incline or location subject to vibration.**
The TV may drop or fall off which may cause injury or damage.
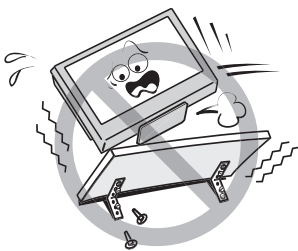
4) **Never block or cover the slots and openings in the cabinet.**
- Never place the TV so that it is facing upward or on its side.
- Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
- Never drape a newspaper, tablecloth or curtain on the TV.
- When installing the TV against a wall, always keep the TV at least 10 cm away from the wall.
- Never place the TV on a soft unstable surface, such as a carpet, or a cushion.

The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.
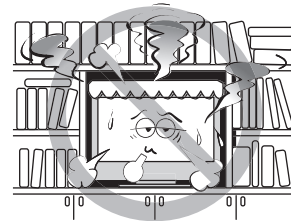
5) **Never place the TV near a heater or in direct sunlight.**
The surface of the cabinet or power cord may melt and result in a fire or an electric shock.
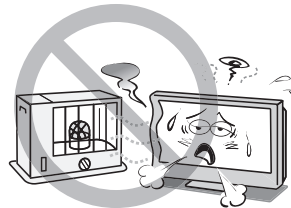
6) **Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.**
This may cause a fire or an electric shock.
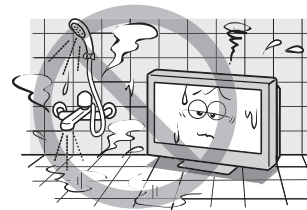
7) **Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.**
This may cause a fire or an electric shock.

3

8) **Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy strap from the hooks on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.**

TV side   TV top
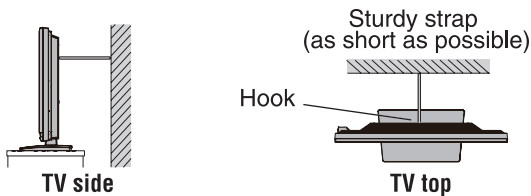
9) **Precautions for moving the TV**
   - When moving the TV, be sure to remove the plug from the wall outlet and disconnect the antenna cable and audio/video cables, any steady ties. Fire or electric shock may result if the power cord is damaged.
   - When carrying the TV, at least two people are needed. Be sure to carry it upright.
   - Never carry the TV with the screen facing up or down.
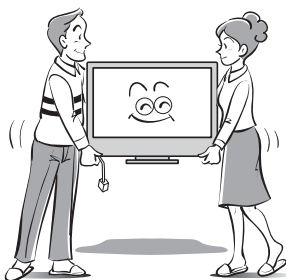
10) **Precautions for installing on outdoor antenna**
    An outside antenna system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.
    If the antenna falls down or drops, it may cause injury or electric shock.

Use

1) **Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.**
   High temperatures can melt plastic and lead to fires.
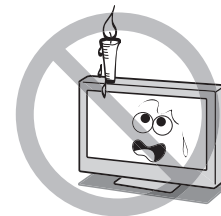
2) **The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.**
   When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock. If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.

3) **Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.**
   These items may cause a fire or an electric shock.
   If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that children do not insert objects into the TV.

4) **Never stand or climb on the TV.**
   Be especially careful in households with children to prevent them through climbing on top of the TV.
   It may move, fall over, break, become damaged or cause an injury.

5) **When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet for safety.**

- The TV is not completely disconnected from the power supply line, as minute current is consumed even when the ⏻/❙ Power switch is turned off.
- The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.
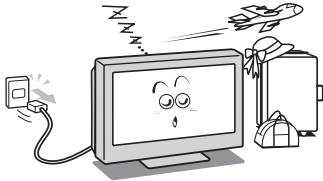
6) **Never pull on the power cord when removing the plug from the wall outlet.**
Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.
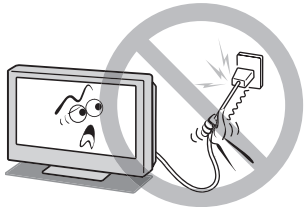
7) **Never cut, break, modify, twist, bunch up or bend the cord or apply excessive force or tension to it.**
Never place heavy objects on the cord or allow it to overheat as this may cause damage, a fire or an electric shock. Contact a service technician if the power cord is damaged.
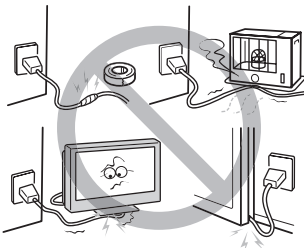
8) **If there is thunder or lightning, never touch the antenna cable or other connected cables.**
You may suffer an electric shock.
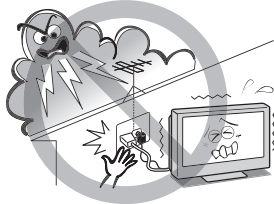
Service

1) **Never repair, modify or disassemble the TV by yourself.**
It may cause a fire or an electric shock. Consult a service technician for inspection and repairs.

2) **When a malfunction occurs, or if smoke or an unusual odour comes from the TV, turn off the TV and remove the power plug from the outlet immediately.**
Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.
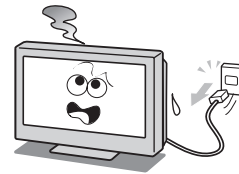
3) **If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.**
If the TV is still power used in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury. Contact a service technician for inspection and repair.
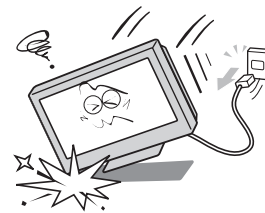
4) **When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.**
Note:
The lamp unit contains a small amount of mercury. Disposal of mercury may be regulated due to environmental considerations.
Dispose of the used lamp unit by the approved method for your area. For disposal or recycling information, please contact your local authorities.
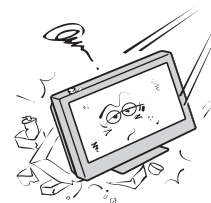
Cleaning

1) **Remove the power plug before cleaning.**

   Never use solvents such as benzine or thinner to clean the TV.
   - These solvents may distort the cabinet or damage its finish.
   - If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

   If the cabinet becomes dirty, clean it with a soft, dry cloth.
   When cleaning the surface of the LCD display, wipe the panel surface gently with a soft, dry cloth.
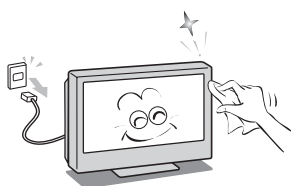
2) **Periodically disconnect the power plug from the outlet and check it.**
   If dust has collected on the power plug connectors, clean off the dust with dry cloth.

   This dust may cause a fire due to reduced insulation on the plug.

Important information

1) **About LCD screen**
   - If you have the LCD screen facing to the sun, the LCD screen will be damaged. Be aware of locating the TV in the place such as window side or outside of the room.
   - Never press the LCD screen strongly or scratch it, and never put anything on it. These actions will damage the LCD screen.

2) **About cabinet and LCD screen**
   Never spray volatile compounds such as insecticide on the cabinet and LCD screen.
   This may cause a discoloration or damage the cabinet and LCD screen.

3) **Some pixels of the screen do not light up**
   The LCD display panel is manufactured using an extremely high level of precision technology, however sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

4) **About Interference**
   The LCD display may cause interference in image, sound, etc. of other electronic equipment that receives electromagnetic waves (e.g. AM radios and video equipment).

5) **About using under the low temperature places**
   If you use the TV in the room of 0°C or less, the picture brightness may vary until the LCD monitor warms up. This is not a sign of a malfunction.

6) **About afterimage**
   If a still picture is displayed, an afterimage may remain on the screen, however it will disappear. This is not a sign of malfunction.

Exemptions

- Toshiba is not liable for any damage caused by fires, natural disaster (such as thunder, earthquake, etc.), acts by third parties, accidents, owner's misuse, or uses in other improper conditions.
- Toshiba is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of product.
- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.
- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

Connecting an antenna

Optimum reception of color requires a good signal and will generally mean that an outdoor antenna must be used.

The exact type and positioning of the antenna will depend upon your particular area.

Your Toshiba dealer or service personnel can best advise you on which antenna to use in your area.

Before connecting the antenna cable, turn off all main power switches.

VHF   UHF

Outdoor antenna

Mixer

Decoder

Media Recorder

TV back view

Antenna cable (75 Ω coaxial)
(not supplied)

300 Ω twin-lead feeder

Antenna adaptor
(not supplied)

75 Ω
antenna
terminal

75 Ω coaxial cable

Plug
(not supplied)

75 Ω antenna
terminal
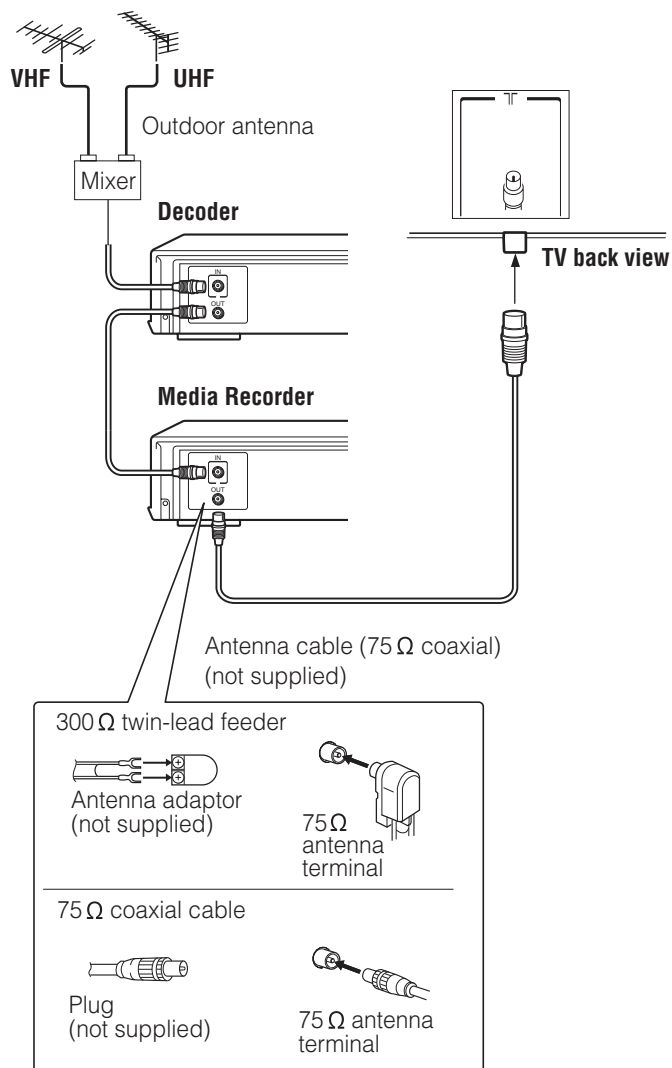
Exploring your new TV

Installing the remote control batteries

Remove the battery cover.
Insert two R03 (AAA) batteries matching the –/+ polarities of the battery to the –/+ marks inside the battery compartment.
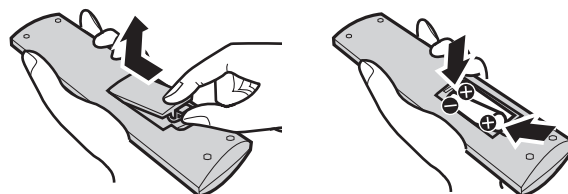
Cautions:
* *Dispose of batteries in a designated disposal area. Never throw batteries into a fire.*
* *Attention should be drawn to the environmental aspects of battery disposal.*
* *Never mix battery types or combine used batteries with new ones.*

Notes:
* *If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.*
* *If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.*

Effective range

30°   30°

5m
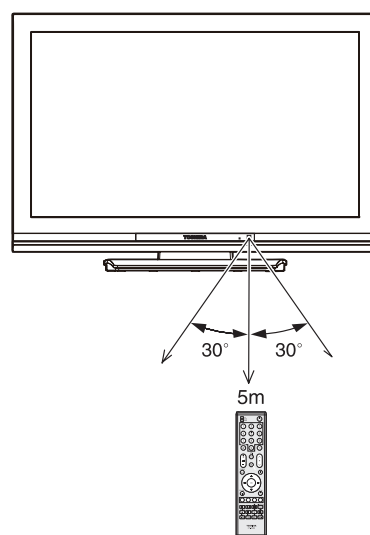
TV front, control and side panel

• You can operate your TV using the buttons on the TV control panel or the remote control. The back and side of the panel provide the terminal connections to connect other equipment to your TV (- "Connecting your TV" pages 28 - 31).
• For the use of each control, see the pages in brackets.

Left side panel   **TV front**

Control panel
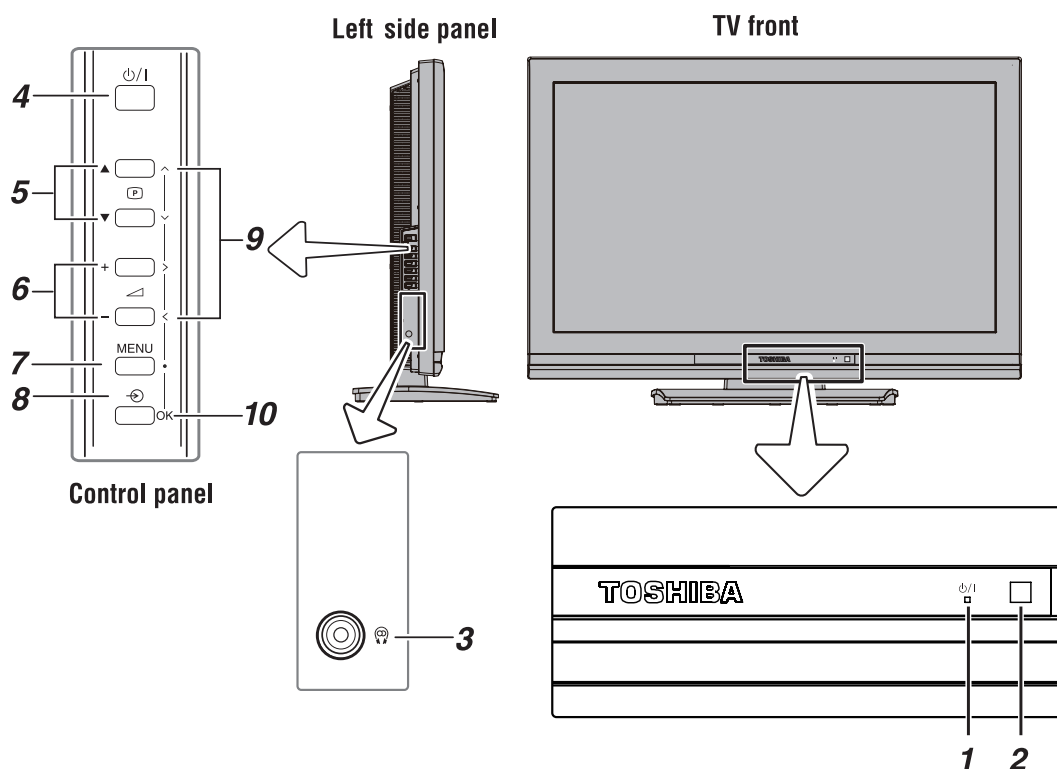
1 ⏻/❘(Power LED) —
Power indicator (☞ page 12).

2 (Remote sensor) —
Point the remote control toward this remote sensor
(☞ page 7).

3 ⌒ (Headphone jack) — For use with headphones.
Note:
When the Headphone jack is being used, the sound from all speakers will be muted, and normal sound will be output to the headphones only.

4 ⏻/❘(Power on/Standby) —
Press to turn the TV on/standby (☞ page 12).

5 Ⓟ▲▼ (Program position) —
When no menu is on-screen, these buttons select the program position. (☞ page 16).

6 ⊿ − + (Volume) —
When no menu is on-screen, these buttons adjust the volume level (☞ page 10).

7 MENU —
Press to access the TV SETUP menu (☞ pages 11, 12).

8 ⊷ (Input source selection) —
When no menu is on-screen, this button selects the input source (☞ page 23).

9 ⌄⌃〈〉(Arrows) —
When a TV menu is on-screen, these buttons function as up/down/left/right menu navigation buttons or adjust settings (☞ page 11).

10 OK —
When a TV menu is on-screen, this button functions as the next menu navigation button (☞ page 11).

TV back panel connections

40" TV
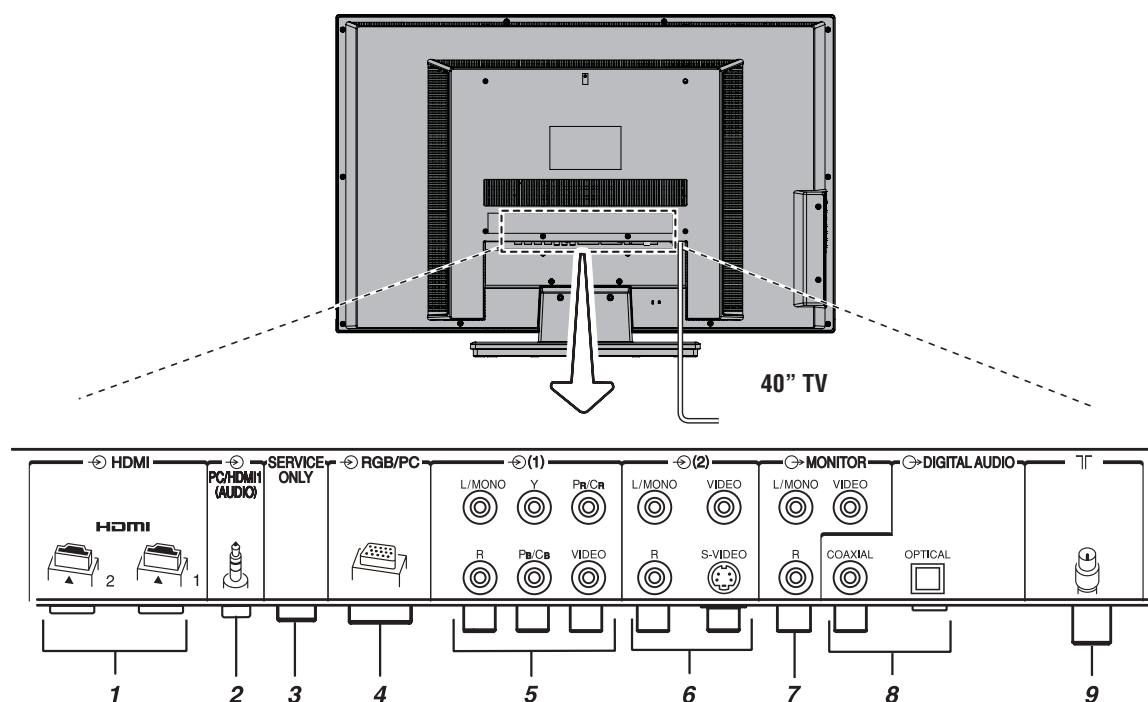
1 ⊙ **HDMI1,2 (input terminals)** —
High-Definition Multimedia Interface input receives
digital audio and uncompressed digital video from an
HDMI device or uncompressed digital video from a DVI
device (☞ page 29).

2 ⊙ **PC/HDMI1 (AUDIO) (input terminals)** —
For use when connecting a personal computer (PC) or a
DVI device with standard audio output (☞ pages 28, 30).

3 **Service** — For service use only.

4 ⊙ **RGB/PC (input terminal)** —
For use when connecting a personal computer (PC)
(☞ page 30).

5 ⊙ **(1) (Video 1 input terminals)** —
High-definition component video or standard (composite)
video and standard (analog) stereo audio inputs (☞ page 28).

6 ⊙ **(2)(Video 2 input terminals)** —
Standard (composite) video and standard audio inputs
plus optional S-video inputs for connecting devices with
composite video or S-video output.

7 ⊙ **MONITOR (output terminals)** —
For use when connecting a VCR/HDD/DVD video
recorder with standard video and standard audio inputs
(☞ page 28).

8 ⊙ **DIGITAL AUDIO (coaxial/optical) (output
terminal)** —
For use when connecting an amplifier with coaxial or
optical type digital audio input (☞ page 28).

9 ⊓ **(Antenna input terminal)** —
Analog TV/Digital DVB-T antenna signal input
(☞ page 7).

Learning about the remote control

Location of controls

To select accordingly TV, STB or DVD mode

Number buttons (0-9) (☞ page 17)

To return to the previous program (☞ page 17)

Volume – + (These buttons adjust the volume level.)

MENU (☞ page 11)

• Menu △▽◁▷ (☞ page 11)
• **OK** (☞ page 11)

To display digital on-screen information (☞ page 26)

Teletext control buttons (Four colored buttons : Red, Green, Yellow, Blue) (☞ page 24)

Picture mode selection (☞ page 19)

Picture size selection (☞ page 18)

Power on/Standby (☞ page 12)

Input source selection (DTV,Video1,Video2,HDMI1, HDMI2,PC and ATV.) (☞ page 23)

To switch between Analog and Digital TV (☞ page 11)

Program position ∧∨ (☞ page 16)

Sound mute (This button turns off/on the sound.)

EXIT (☞ page 12)

To switch between Navigation List and Favorite List (☞ pages 16, 27)

• ⊡/≣ To display on-screen information (☞ page 17)
• ≣ Initial/index function for Teletext - analog only - (☞ page 25)

Teletext on/Superimpose Teletext/off (☞ page 24)

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When using Toshiba STB or DVD,
press ▲ to EJECT
press ■ to STOP
press ► to PLAY **
press ▍▍/▍► to PAUSE *
press ▍◄◄ to SKIP REVERSE
press ◄◄ to REVERSE
press ►► to FORWARD
press ►►▍ to SKIP FORWARD
* For HDD-J35 and HDD-S36, this is also the PLAY key.
** Not applicable to HDD-J35 and HDD-S36, where the PLAY key is shared with PAUSE.

When using Toshiba DVD,
DVD RTN
  To return to the previous menu accessed.
DVD AUDIO
  To toggle between different audio modes.
DVD MENU
  To display the menu of DVD disc.
TOP MENU
  To display the title menu on DVD disc.
SET UP
  To access the on-screen Setup menu for setting adjustment.

When in TV mode:
SUBTITLE Digital subtitle on/off (☞ page 27)
⊙I/II Stereo/bilingual selection (☞ page 21) To display the Audio Track menu - digital only-
≣ To access sub-pages when in teletext - analog only - (☞ page 24)
▼ Picture still (☞ page 19)

Teletext function - analog only -
≣? To reveal concealed text (☞ page 25)
≣ To hold a wanted page (☞ page 25)
≣ To enlarge teletext display size (☞ page 25)
⊙/≣ • To select a page while viewing a normal picture (☞ page 25)
• To select the time display (☞ page 25)

This integrated TV is equipped with both Digital and Analog system. To switch between Digital and Analog TV press **A/D** on the remote control.

Learning about the menu system

We suggest you familiarize yourself with the display charts before using the menu system:

- Press (MENU) to display menu, then press ◁ or ▷ to select main menu headings.
- Press △ or ▽ to select sub manu headings.
- Press (OK) to select or adjust setting.
- Press (OK) to display the next menu.

Displaying the Digital TV/Analog TV SETUP menu chart

When source input " **DTV** "or " **ATV** " is selected, press (MENU) to display the TV SETUP menu chart.
The menu will display "**DTV Menu**" if Digital TV selected.
The menu will display "**ATV Menu**" if Analog TV selected.
There will be some functions which not available in Digital TV.

TV SETUP menu chart

About DTV Menu

PICTRUE menu

DTV Menu...[PICTURE]
Picture Mode | Auto Contrast Enhancement Off
Cinema Mode
Color Temp | Picture Mode Dynamic
Aspect Ratio | Contrast 100
Backlight | Brightness 50
DNR | Color 50
Sharpness 0
Tint 0
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

(OK)

DTV Menu...[PICTURE...Picture Mode]
Picture Mode | Auto Contrast Enhancement Off
Cinema Mode
Color Temp | Picture Mode Dynamic
Aspect Ratio | Contrast 100
Backlight | Brightness 50
DNR | Color 50
Sharpness 0
Tint 0
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

◁ ▷

SOUND menu

DTV Menu...[SOUND]
Selectable Sound | Selectable Sound Standard
Bass Boost
Virtual Surround | Bass Setting 0
Treble Setting 0
Balance Setting 0
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

(OK)

DTV Menu...[SOUND...Selectable Sound]
Selectable Sound | Selectable Sound Standard
Bass Boost
Virtual Surround | Bass Setting 0
Treble Setting 0
Balance Setting 0
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

◁ ▷

SET UP menu

DTV Menu...[Setup]
Language
Country/Region | Menu Language English
Full Search
Quick Search
Manual Search
Channel List
Fav Group : 1
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

(OK)

DTV Menu...[Setup...Language]
Language
Country/Region | Menu Language English
Full Search
Quick Search
Manual Search
Channel List
Fav Group : 1
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

◁ ▷

TIMER menu

DTV Menu...[TIMER]
Time Setting | Current Time
Power Control
Banner Duration | 2008 - 05 - 01 00 00 00
WakeUp Timer after 01 Hours 00 Minutes
Sleep Timer after 01 Hours 00 Minutes
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

(OK)

DTV Menu...[TIMER...Time Setting]
Time Setting | Current Time
Power Control
Banner Duration | 2008 - 05 - 01 00 00 00
WakeUp Timer after 01 Hours 00 Minutes
Sleep Timer after 01 Hours 00 Minutes
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

◁ ▷

FUNCTION menu

DTV Menu...[FUNCTION]
Reset to default
AV Connection
Password
Parental Rating
Channel Lock
EPG
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

(OK)

DTV Menu...[FUNCTION...Reset to default]
Reset to default
AV Connection
Password | Reset to default Confirm
Parental Rating | ⚠ This will do reset to default.
Channel Lock | Are you sure?
EPG
OK Confirm MENU Return ◄►▲▼ Navigate EXIT Cancel

About ATV Menu

PICTURE menu

ATV Menu...[PICTURE]
Picture Mode
Color Temp
Aspect Ratio
Backlight
DNR

Auto Contrast Enhancement	Off
Picture Mode	Dynamic
Contrast	100
Brightness	50
Color	50
Sharpness	0

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

OK →

ATV Menu...[PICTURE...Picture Mode]
Picture Mode
Color Temp
Aspect Ratio
Backlight
DNR

Auto Contrast Enhancement	Off
Picture Mode	Dynamic
Contrast	100
Brightness	50
Color	50
Sharpness	0

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

SOUND menu ◁ ▷

ATV Menu...[SOUND]
MTS
Dual
Selectable Sound
Bass Boost
Virtual Surround

Auto ◄►

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

OK →

ATV Menu...[SOUND...MTS]
MTS
Dual
Selectable Sound
Bass Boost
Virtual Surround

Auto ◄►

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

SET UP menu ◁ ▷

ATV Menu...[Setup]
Language
Country/Region
Auto Tuning
Manual Adjust
Channel List
Fav Group : 1
Fav Group : 2

Menu Language English ◄►

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

OK →

ATV Menu...[Setup...Language]
Language
Country/Region
Auto Tuning
Manual Adjust
Channel List
Fav Group : 1
Fav Group : 2

Menu Language English ◄►

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

TIMER menu ◁ ▷

ATV Menu...[TIMER]
Time Setting
Power Control
Banner Duration

Current Time
2008 – 05 – 01   00 : 00 : 00
WakeUp Timer after 01 Hours 00 Minutes
Sleep Timer after 01 Hours 00 Minutes

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

OK →

ATV Menu...[TIMER...Time Setting]
Time Setting
Power Control
Banner Duration

Current Time
2008 – 05 – 01   00 : 00 : 00
WakeUp Timer after 01 Hours 00 Minutes
Sleep Timer after 01 Hours 00 Minutes

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

FUNCTION menu ◁ ▷

ATV Menu...[FUNCTION]
Reset to default
AV Connection
Password
Parental Rating
Teletext Mode

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

OK →

ATV Menu...[FUNCTION...Reset to default]
Reset to default
AV Connection
Password
Parental Rating
Teletext Mode

Reset to default Confirm
⚠ This will do reset to default.
Are you sure?

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

Notes for menu system:
• In the video input mode (**Video1, Video2, HDMI, PC**), **Auto tuning / Full Search** and **Manual Adjust / Manual Search** are not available. (☞ page 13).
• If you do not make a selection for a while, the menu display disappears automatically.
• If you want to close the menu display instantly, press (EXIT) .

Turning the TV on

Switching on the TV

Connect the power cord to a wall outlet, the ⏻/│ power indicator lights in red (standby mode).

1 Press ⏻ on the remote control or ⏻/│ on the TV control panel, the ⏻/│ power indicator lights in green.

Switching off the TV

1 Press ⏻ on the remote control or ⏻/│ on the TV control panel to switch to the standby mode.

Notes:
• *This TV is not fully disconnected from the main supply, as minute current is consumed even when ⏻/│ is turned off.*
  When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.
• *If power is cut off while you are viewing the TV, the Last Mode Memory function turns on the TV automatically when power is applied again. If power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.*

Tuning the TV for the first time

Before switching on the TV, put your decoder and media recorder to Standby if they are connected and ensure the antenna is connected. To setup the TV use the buttons on the remote control as detailed on page 10.

1   This screen will appear the first time that the TV is switched on and each time the TV is reset.

```
              Initial Installation

   Menu Language      English        ◀ ▶
   Country/Region     Australia
   Province/State     NSW/ACT        ◀ ▶

        OK  Star TV Scan    EXIT  Cancel
```
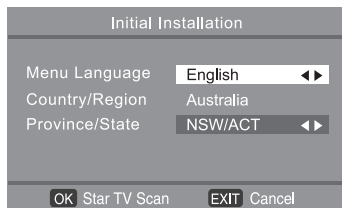
2   Press ◁ or ▷ to select the **Menu Language** function. Language include the **English, Français** and **中文**.

3   Use ▽ to select **Province/State**. Press ◁ or ▷to select the state in which you live. State include the NSW/ACT(New South Wales/Australian Capital Territory), VIC(Victoria), QLD(Queensland), SA(South Australia), WA(Western Australia), TAS(Tasmania) and NT(Northern Territory）.

4   Press ⓄⓀ to setup **Energy Saving Mode**.

5   Press ◁ or ▷ to select the **Energy Saving Mode**.

```
            Energy Saving Mode

   To use this TV for displaying in a retail showroom,
   please select [Retail].
   [Home] mode is recommended for normal home
   use.

        Retail              Home

        ◀▶  Navigate      OK  Confirm
```

Notes:

To ensure your television is operating at optimal energy efficiency, select **Home** mode during initial activation. **Home** mode is recommended for normal home use.

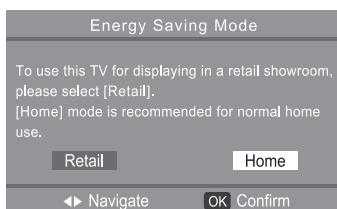**Energy Saving Mode:** The factory default settings of this television meet ENERGY SAVING requirements. Changing Picture Settings may increase energy consumption, possibly beyond the limits required for ENERGY SAVING qualification.

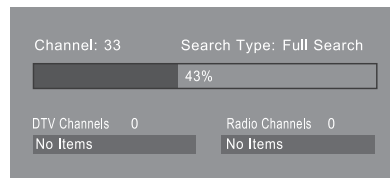To return to **Home** mode settings, select **Standard** picture mode.

Standard picture mode is used to achieve published average power values, and this mode is recommended for normal home use.

6   Press ⓄⓀ to set **Energy Saving Mode** and to start ATV/ DTV Scan .
The Auto Scan screen will appear and the TV will automatically start to search for available stations. The progress bar will move along the line.

```
   TV Auto Scan            ATV Channels: 0

                                        VL
        10%
```
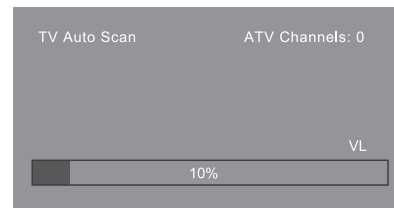
7   When DTV search is completed, the TV will automatically turn to the lowest logical channel number.

```
   Channel: 33        Search Type: Full Search
                43%

   DTV Channels   0        Radio Channels   0
   No Items                No Items
```

Programming channels into the TV's channel memory

Full Search - digital only -

As new services are broadcast, it will be necessary to re-tune the TV in order to view them.
Full Seach will completely re-tune the TV and can be used to update the channel list. It is recommended that Full Seach is run periodically to ensure that all new services are added. All stored programs and settings, including Timer entries, favorites and locked programs, will be lost.

1   Press ⓂⒺⓃⓊ , and ◁ or ▷ to select the **SETUP** menu.
2   Press ⓄⓀ , and △ or ▽ to select **Full Search** menu.
3   Press ⓄⓀ , a confirmation screen will appear indicating that **This will do full search, Are you sure?**

```
   DTV Menu...[Setup...Full Search]
   Language
   Country/Region         Full Search Confirm
   Full Search
   Quick Search        ⚠  This will do full search.
   Manual Search          Are you sure?
   Channel List
   Fav Group : 1
              ▼
   OK Confirm MENU Return ◀▶▲ Navigate EXIT Cancel
```
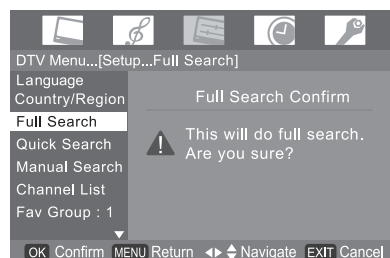
4   Press ⓄⓀ , to start Auto tuning.
The below sample display shows **Full Search** in progress.
The channel number will show 1~ 69.
DTV Channels will display searched channel and name information.
Radio Channels will display searched channel and name information.

```
   DTV Menu...[Setup...Full Search]
   Language
   Country/Region    Channel: 33   Search Type:  Full Search
   Full Search              43%
   Quick Search      DTV Channels  4    Radio Channels    2
   Manual Search     20 ABC HDTV        200 ABC DIG Radio
   Channel List      2  ABC TV 3        201 DIG Jazz
   Fav Group : 1     21 ABC2
                     22 ABC TV
   OK Confirm MENU Return ◀▶▲ Navigate EXIT Cancel
```

13
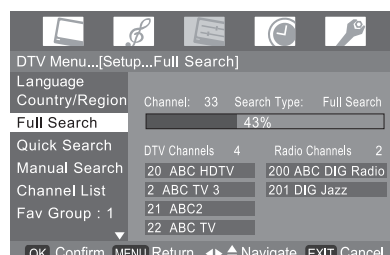
5 **Full Search** will show scan of **DTV Channels /Radio Channels** list.

6 When the search is complete, the TV will automatically tune to the lowest logical channel number.

Note:

*After the **Full Search**, the TV may have scanned identical channels being broadcast from different transmitters. Pressing*

⓪ *or* ⓖⓤⓘⓓⓔ *helps you to check **Full Search** result. If you do find channels with the same logical channel numbers but different physical channel numbers, it is recommended that you skip these duplicate channels and keep only one channel with the best signal strength as indicated by the signal strength bar in the on-screen information.*

Manual Search - digital only -

If there were any missing channel after **Full Search**, these channels might be found by using **Manual Search** described in this section.

1 From the **Setup** menu, press ▽ or △ to select **Manual Search**.

2 Press ⓞⓚ , then press ◁ or ▷ to select the channel(0~69) you wish to search.

DTV Menu...[Setup...Manual Search]
Language
Country/Region
Full Search   Channel Number   21 ◀▶
Quick Search   Signal Strength   0%
Manual Search
Channel List
Fav Group : 1
OK Confirm MENU Return ◀▶ ▲ Navigate EXIT Cancel

3 If scanning was successful, **Signal Strength** will appear at almost 100%. Repeat to scan other channels as necessary.

DTV Menu...[Setup...Manual Search]
Language
Country/Region
Full Search   Channel Number   21 ◀▶
Quick Search   Signal Strength   100%
Manual Search
Channel List
Fav Group : 1
OK Confirm MENU Return ◀▶ ▲ Navigate EXIT Cancel

4 If scanning was unsuccessful, **Signal Strength** will appear at almost 0%.
At this point you can rescan the signal or refer to aligning the direction of the antenna to get the signal. Refer to your antenna installer if problem persists.

Notes:

• **Signal Strength** *refers to the input Radio Frequency (RF) signal strength as perceived by the TV. Note that too strong signal may cause erroneous readings. If you use an antenna booster and find that you still get a low signal level, your booster gain may be set too high. In this case, adjust the gain accordingly. You may also see the **No Signal** on the screen when the signal level is low.*

Auto Tuning - analog only -

First, use the **Auto Tuning** function to preset all the active channels in your area automatically. Then, arrange the preset channels with the **Manual Adjust** function so that you can tune into desired channels.
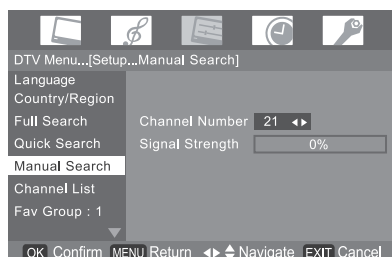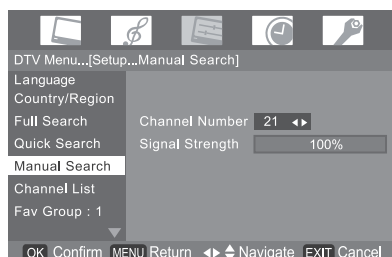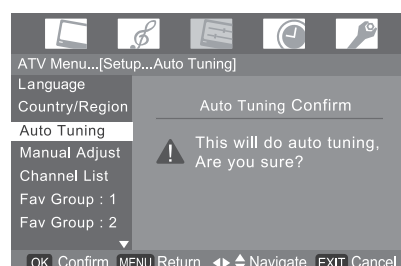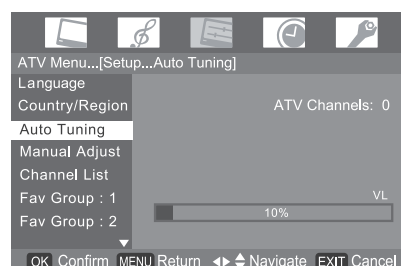
1 Press ⓜⓔⓝⓤ , and ◁ or ▷ to select the **Setup** menu.

2 Press ⓞⓚ , and △ or ▽ to select **Auto Tuning** menu.

3 Press ⓞⓚ , a confirmation screen will appear indicating that **This will do auto tuning , Are you sure?**

ATV Menu...[Setup...Auto Tuning]
Language
Country/Region   Auto Tuning Confirm
Auto Tuning
Manual Adjust   ⚠ This will do auto tuning,
Channel List   Are you sure?
Fav Group : 1
Fav Group : 2
OK Confirm MENU Return ◀▶ ▲ Navigate EXIT Cancel

4 Press ⓞⓚ to start the automatic search.
The search will begin for all available stations.

ATV Menu...[Setup...Auto Tuning]
Language
Country/Region   ATV Channels: 0
Auto Tuning
Manual Adjust
Channel List
Fav Group : 1   VL
Fav Group : 2   10%
OK Confirm MENU Return ◀▶ ▲ Navigate EXIT Cancel

The slide bar will move along line as the search progresses.
If you make a mistake, simply repeat steps 1-3 to start again from the beginning.

5 When the automatic search is completed, the TV will automatically return to the first program position.

**6** Press **P**∧ or **P**∨ to view the programmed position.

Note:

*When you preset the program channel which sound of broadcast transmission system adopts "M" system, the sound system may not be tuned correctly if the radio waves transmit badly. At that time, preset the channel by **Manual Search**.*
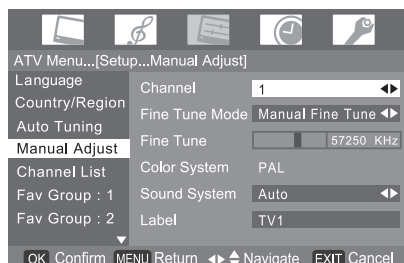
Manual Adjust - analog only -

Use the **Manual Adjust** operation if desired channels cannot be preset with the Auto tuning or if you would like to preset channels to specific position numbers one by one.

1 From the **SET UP** menu, press ▽ or △ to select **Manual Adjust**.
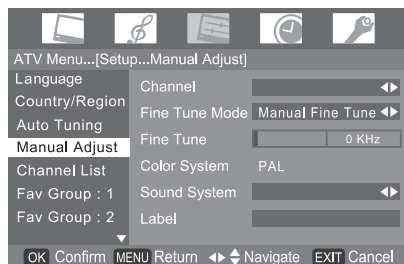
2 Press ⓄⓀ to display the **Manual Adjust** menu, then press ▽ or △ to select the item as shown below.

A. **Channel**

You can select channel no for which **Manual Adjust** is required.

B. **Fine Tune Mode**

Press ◁ or ▷ to select "Auto fine Tune" and "Manual fine Tune".

C. **Sound System**

Press ◁ or ▷ to select Auto, B/G,I or D/K system.

D. **Label**

The video label allows you to label each input source for your TV.
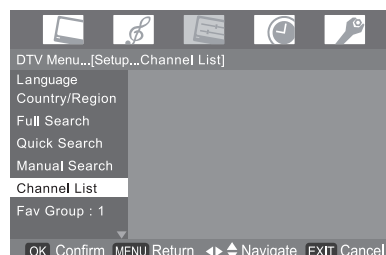
To change or create video labels:
1.) Press ▽ or △ to select Label, and press yellow key to use the EDIT window as shown below.

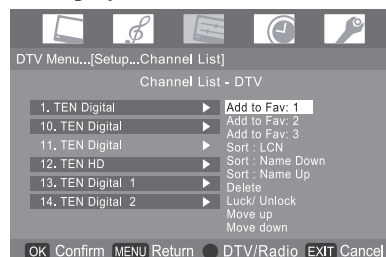2.) Press ▽, △,◁ and ▷ to select character.
And you can use Delete and Caps Lock to edit your label name.
3.) Press Save to store your settings.

Channel List - digital only -

1 From the **SET UP** menu, press ▽ or △ to select **Channel List**.

2 Press ⓄⓀ to display the **Channel List** menu.

3 Press ▽ or △ to select the program position you want to arrange.

4 Press ▷ to display the breakdown menu.

5 Press ▽ or △ to select an item, then press ⓄⓀ to select the item as shown below.

A. **Add to Fav: 1 -** Add selected channel to Favorite group 1.

B. **Add to Fav: 2 -** Add selected channel to Favorite group 2.

C. **Add to Fav: 3 -** Add selected channel to Favorite group 3.

D. **Sort: LCN -** Sort all channels by channel number.

E. **Sort: Name Down -** Sort all channels by name.
(☞ *page 16*)

F. **Sort: Name Up -** Sort all channels by name.
(☞ *page 16*)

G. **Delete –** Delete selected channel from the channel list.

H. **Lock/ Unlock –** Lock / Unlock selected channel by password.

I. **Move Up –** Selected channel will be move up one channel.

J. **Move Down –** Selected channel will be move down one channel.

Sorting program position

• The TV is capable of receiving a number of different channels depending upon where you live.

• Program sorting is an easy way of storing each channel on the program position of your choice.

Ex.: To swap channel A1. TEN Digital 1(Prog.13) for channel TEN Digital 2 (Prog.14):

1 From the **SET UP** menu, Press (OK) and ▽ or △ to select **Channel List**.

```
DTV Menu...[Setup...Channel List]
Language
Country/Region
Full Search
Quick Search
Manual Search
Channel List
Fav Group : 1
OK Confirm  MENU Return  ◄► ▲▼ Navigate  EXIT Cancel
```
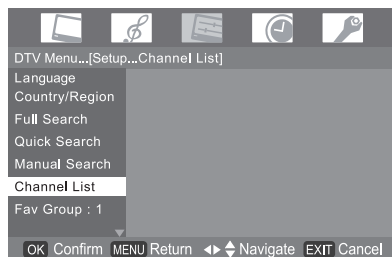
2 Press (OK) to display the **Channel List** menu. Press ▽ or △ to select 13. TEN Digital 1.

```
DTV Menu...[Setup...Channel List]
        Channel List - DTV
1. TEN Digital          ►
10. TEN Digital         ►
11. TEN Digital         ►
12. TEN HD              ►
13. TEN Digital  1      ►
14. TEN Digital  2      ►
OK Confirm  MENU Return  ● DTV/Radio  EXIT Cancel
```

3 Press ▽ or △ to select **Move Down** menu, then press (OK).

```
DTV Menu...[Setup...Channel List]
        Channel List - DTV
1. TEN Digital       ►  Add to Fav: 1
10. TEN Digital      ►  Add to Fav: 2
11. TEN Digital      ►  Add to Fav: 3
12. TEN HD           ►  Sort : LCN
13. TEN Digital  2   ►  Sort : Name Down
14. TEN Digital  1   ►  Sort : Name Up
                        Delete
                        Luck/ Unlock
                        Move up
                        Move down
OK Confirm  MENU Return  ● DTV/Radio  EXIT Cancel
```

4 Confirm new **Channel List** menu.

Favorite Channel

1 Press (MENU) , then press ◁ or ▷ to select the **SETUP** menu.

2 Press (OK) and press ▽ or △ to select **Fav Group 1**, **2** or **3**, then press (OK) .

```
DTV Menu...[Setup...Fav Group : 1]
Language
Country/Region
Full Search
Quick Search
Manual Search
Channel List
Fav Group : 1
OK Confirm  MENU Return  ◄► ▲▼ Navigate  EXIT Cancel
```
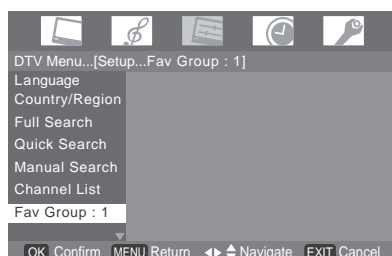
3 Press ▷ will display the breakdown menu.

4 Press ▽ and △ to select an item.

```
DTV Menu...[Setup...Fav Group: 1]
Fav Group: 1
 20  ABV  HDTV  ►    Add
                     Delete
                     Move Up
                     Move Down

OK Confirm MENU Return ● Favorite Group 1/2/3 EXIT Cancel
```

A. **Add** – Add selected channel from the channel list.
B. **Delete** – Delete selected channel from the channel list.
C. **Move Up** – Selected channel will move up one channel.
D. **Move Down –** Selected channel will move down one channel.

5 You can press (OK) to save edited channel program and press (MENU) to exit .

6 When viewing in Digital TV, press (LIST/FAV) to display the Fav Group channel list.

7 Press ▽ and △ to select your favorite program, then press (OK) .

```
Fac Group:   1

    7 . 7 Digital
    70. 7 HD Digital
    71. 7 Digital 1
    72. 7 Digital 2
    73. 7 Digital 2
           ▽
OK Confirm  MENU Return  ● Favorite Grope 1/2/3  EXIT Cancel
```
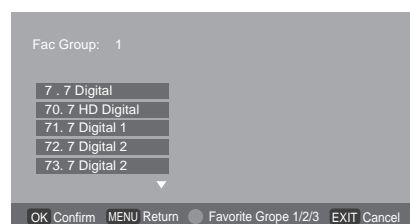
Channel List **- analog only -**

1 From the **SET UP** menu, Press (OK) and ▽ or △ to select **Channel List** .

```
ATV Menu...[Setup...Channel List]
Language
Country/Region
Auto Tuning
Manual Adjust
Channel List
Fav Group : 1
Fav Group : 2
OK Confirm  MENU Return  ◄► ▲▼ Navigate  EXIT Cancel
```

2 Press (OK) to display the **Channel List** menu.

```
ATV Menu...[Setup...Channel List]
        TV Channel List
1. TEN Digital       ►  Skip1
10. TEN Digital      ►  Luck/ Unlock
11. TEN Digital      ►  Delete
12. TEN HD           ►  Sort : Name Up
13. TEN Digital  1   ►  Sort : Name Down
14. TEN Digital  2   ►  Move up
                        Move down
OK Confirm  MENU Return  ● DTV/Radio  EXIT Cancel
```
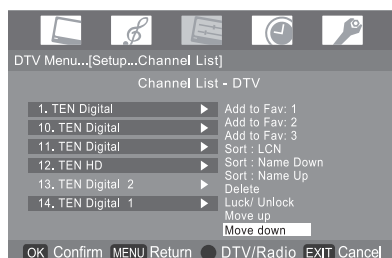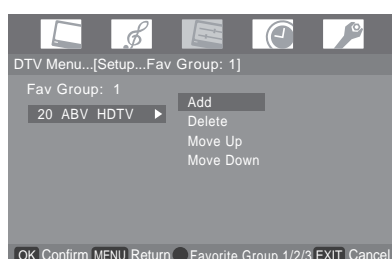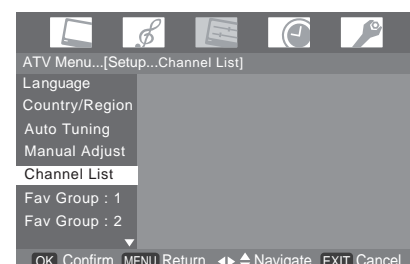
3 Press ▽ or △ to select the program position you want to arrange.

4 Press ▷ to display the breakdown menu.

5 Press ▽ or △ to select an item, then press (OK) to select the item as shown below.

A. **Skip-** If you turn this option on, selected channel will be skipped when you select channels with **P∧** or **P∨**.

B. **Lock/ Unlock** – Lock / Unlock the channel by password.

C. **Delete** – Delete selected channel from the channel list.

D. **Sort: Name Up -** Sort all channels by name.

E. **Sort: Name Down -** Sort all channels by name.

F. **Move Up** – Selected channel will move up one channel.

G. **Move Down –** Selected channel will move down one channel.

Watching TV programs

Viewing Digital programs - digital only -

After you have tuned the TV, you have several ways to navigate through all programs:

- Press the **Number** buttons (a channel number has 3-digits) and you may omit the leading zeroes, which will be appended automatically; (Please note that if you have channels with different frequencies but the same channel number, the TV will always tune to the first channel that has been stored into the channel database. To view the other duplicating channels, you can select the channels from the **Channel List-DTV** or use the **P**∧/**P**∨ buttons.)
- Press **P**∧/**P**∨ to view the previous and next program. The channels are arranged in ascending order according to the channel number.
- Press (LIST/FAV) to display Favorite channel list and press ▽ or △ to select a program, then press (OK) to view the favorite program.

Switching between two program positions

You can switch two program positions without entering actual position number each time.
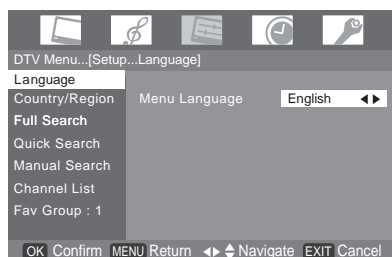
1 Select the first program position you want to view.

2 Select the second program position with the Number buttons (0-9).

3 Press (⇆). The previous channel will be displayed.

Each time you press (⇆), the TV will switch back and forth between the two program positions.

Selecting the menu language

Choose from 3 different languages (English, French, Chinese(CS)) for the On-Screen-Display.

1 Press (MENU), then press ◁ or ▷ to display **SET UP** menu.

2 Press (OK), then press ▽ or △ to select **Language**.

3 Press (OK), then press ◁ or ▷ to select the desired language.

DTV Menu...[Setup...Language]				
Language				
Country/Region	Menu Language		English ◀▶	
Full Search				
Quick Search				
Manual Search				
Channel List				
Fav Group : 1				

OK Confirm   MENU Return   ◀▶ ▲ Navigate   EXIT Cancel

Displaying the on-screen information

1 Press (i+) to display the following on-screen information.

- Analog TV -

> 1
> ATV−1
> NICAM MNO
> TTX

The information will disappear in variable time which is dependent on banner duration setting.

- Program position or external input mode selected
- Label (if set)
- Mono/Stereo/Dual audio status
- Teletext signal status

- Video 1, Video 2, HDMI 1, HDMI 2, PC -

> HDMI 1
> 1920x1080p(60Hz)

The information will disappear in variable time which is dependent on banner duration setting.

- Source input name
- Video input resolution

- Digital TV -

DTV	012 TEN HD		1440x1080 50i	09:35
SUB	Good Morning Australia		G	08:00-10:29
TTX	Huey"s Cooking Adventures		G	10:30-10:59
Dolby D				
Auto	English	Signal Strength		100%

When viewing in Digital TV, the on-screen information will give the details of the channel program currently being viewed.
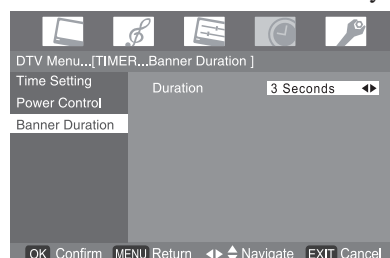The contains the following information:

- Current Channel Number and Name
- Received program video format
- Current time
- Subtitle (closed-caption) availability (indicated by CC)
- Teletext availability (indicated by TTX)
- Dolby® Digital audio track availability (indicated by **Dolby D**)
- Now and Next Program Names
- Parental Guidance code (PG, MA, G, R, etc.)
- Audio setting
- Signal Strength

2 To close the display instantly, press (EXIT).

Setting the On-Screen-Display Time

1 From the **TIMER** menu, press ▽ or △ to select **Banner Duration**.

2 Press (OK), then press ◁ or ▷ to set duration time for which on-screen DTV information will stay on the screen.

|				
DTV Menu...[TIMER...Banner Duration]				
Time Setting				
Power Control	Duration		3 Seconds ◀▶	
Banner Duration				

OK Confirm   MENU Return   ◀▶ ▲ Navigate   EXIT Cancel

Note:

Banner Duration *function is display DTV information and menu display on screen timing.*

Picture adjustment

Selecting the picture size

1 Each time you press ⊞ , picture size information will change again. The information will disappear in variable time, which is dependent on banner duration setting.

Aspect Ratio
Wide
Super Live 2
Cinema 2
4 : 3
Super Live 1
Cinema 1
Subtitle
14 : 9
Auto
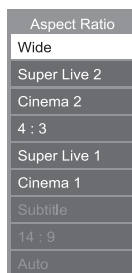
2 Picture size will change as below mode:
Wide, Super Live 2, Cinema 2,4:3, Super Live 1, Cinema 1, Subtitle,14:9 and Auto .

Auto - HDMI only -

Use this setting when watching a wide-screen DVD, widescreen video tape or a 16:9 broadcast (when available), than aspect ratio will automatically follow DVD player of HDMI output format to change the same picture size to display. You can easily see good display on the screen.

Wide

Use this setting when watching a wide-screen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of wide-screen formats (16:9, 14:9, 20:9 etc.), you may see bars on the top and bottom of the screen.
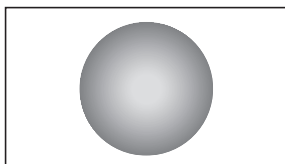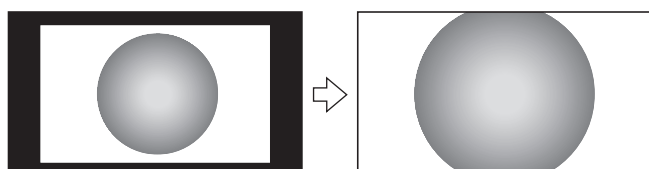
Super Live 2

When receiving "side panel format" signal, this setting will enlarge the image to fit the screen by stretching the image vertically and horizontally, holding the better proportions at the center of the image. Also the black bars on the both sides of the screen will eliminate or reduce.
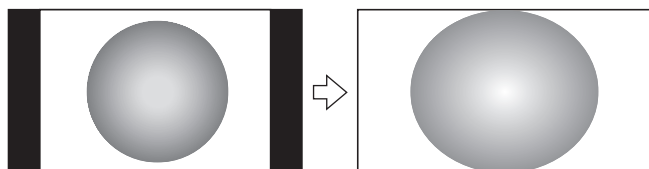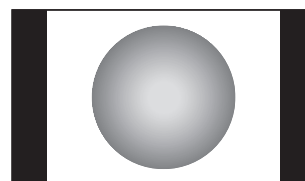
Cinema 2

When watching "all sides panel format" films/video tapes, this setting will eliminate or reduce the black bars on all the sides of the screen by zooming in and selecting the image without distortion.
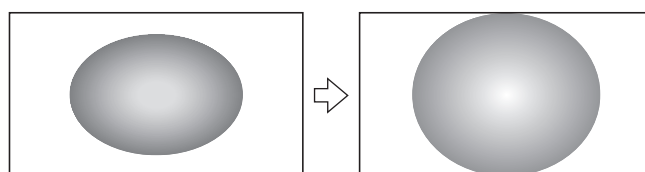
4:3

Use this setting to view a true 4:3 broadcast may see bars on the top and bottom of the screen.

Super Live 1

When receiving "4:3 format" signal, this setting will enlarge the image to fit the screen by stretching the image vertically and horizontally, holding the better proportions at the center of the image.
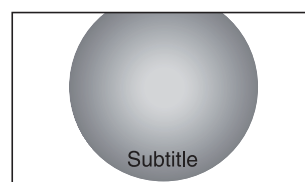
Cinema 1

When watching "letterbox format" films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.
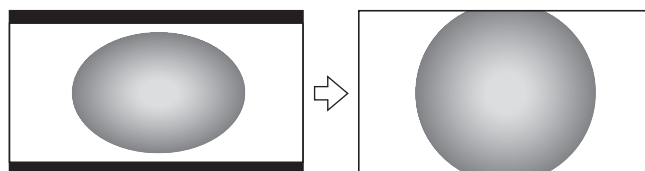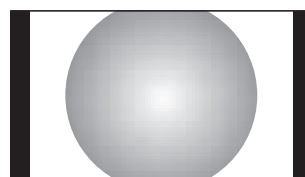
Subtitle

When subtitles are included on a letterbox format broadcast, this setting will raise the picture so that the most of text is displayed.

14:9

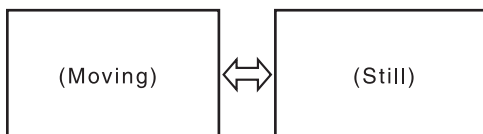Use this setting when watching a 14:9 broadcast.

Notes:

• *Using the special functions to change the size of the displayed image (e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.*

• *If the aspect ratio of the selected format is different from the one of the TV transmission or video program, it can cause a difference in vision. Change to the correct aspect ratio picture size.*

• *In the PC input mode (☞ page 31), the picture size selection is wide or 4:3 only.*

• *When DTV teletext (☞ page 25) displayed, the picture size selection is not available.*

• *When Subtitle(☞ page 27) displayed, the picture size selection is available.*

• *In Digital TV, the picture size selections are **Super Live 1**, **Cinema 1**, **Wide**, **Super Live 2**, **Cinema 2** and **4:3**.*

Using the picture still

• Press 🔽 to freeze the picture.

Even if an image is frozen on the TV screen, the pictures are running on the input source. Audio continues to be output as well.

To return to a moving picture, press 🔽 again.

```
┌──────────────┐       ┌──────────────┐
│              │       │              │
│   (Moving)   │  ⟺    │   (Still)    │
│              │       │              │
└──────────────┘       └──────────────┘
```

Note:

• *If you use this function except for the purpose of your private viewing and listening, it may infringe the copyright protected by the copyright laws.*

Adjusting the picture position - PC only -

Adjustment to the position of the picture may be made to suit your viewing preferences.

1 Press 🔘 , then press ◁ or ▷ to display the **PICTURE** menu, then press 🆗 .

2 Press the ▽ or △ to select **VGA Set**, then press 🆗 .

```
┌──────────────────────────────────────────────┐
│  ▢     🎵     ▤     🕐     🔧                 │
│ Menu...[PICTURE...VGA Set]                     │
│ Picture Mode                                   │
│ Color Temp      H Pos    ▭▭▭▭     50           │
│ Aspect Ratio    V Pos    ▭▭▭      10           │
│ Backlight       Clock    ▭▭▭      10           │
│ VGA Set         Phase    ▭▭▭      15           │
│                 Auto Adjust                    │
│                                                │
│ OK Confirm  MENU Return  ◀▶ ⬍ Navigate  EXIT Cancel │
└──────────────────────────────────────────────┘
```
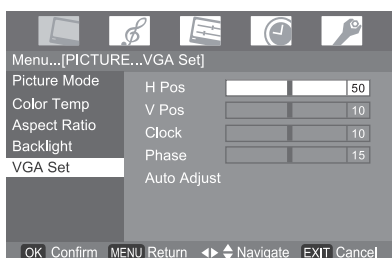
3 Press the ▽ or △ to select **H pos, V pos, Clock** and **Phase.**

4 Press ◁ or ▷ to adjust to settings as required.

Automatically Adjusting the picture position

- PC only -

Adjustment to the position of the picture may be made to suit your viewing preferences.

1 From the **VGA Set** menu, press ▽ or △ to select **Auto Adjust**.

2 Press ▷, then TV starts adjusting the picture position.

Selecting the picture mode

You can select the picture quality instantly among three preset modes and one user-set mode.

• Press 🔲 to select the desired picture quality.

```
┌────────────────────────────────┐
│                                │
│              Dynamic           │
│                                │
│                                │
└────────────────────────────────┘
```

Mode	Picture quality
⊞ Dynamic	Bright and dynamic picture
⊞ Standard	Standard picture
⊞ Movie	Mild soft picture
⊞ Memory	Memory the picture quality you set

Note:
In the PC input mode (☞ page 23), this mode is not available.

Adjusting the basic picture quality

1 Press 🔘 , then press ◁ or ▷ to display the **PICTURE** menu.

2 Press 🆗 , then press ▽ or △ to select **Picture Mode**.

3 Press ◁ or ▷ to select **Memory**.

```
┌──────────────────────────────────────────────┐
│  ▢     🎵     ▤     🕐     🔧                 │
│ DTV Menu...[PICTURE...Picture Mode]            │
│ Picture Mode                                   │
│ Cinema Mode  Auto Contrast Enhancement On  ◀▶  │
│ Color Temp   Picture Mode         Memory   ◀▶  │
│ Aspect Ratio    Contrast    ▭▭▭▭▭▭      70     │
│ Backlight       Brightness  ▭▭▭▭▭       50     │
│ DNR             Color       ▭▭▭▭▭       50     │
│                 Sharpness   ▭▭          0      │
│                 Tint        ▭▭          0      │
│                                                │
│ OK Confirm  MENU Return  ◀▶ ⬍ Navigate  EXIT Cancel │
└──────────────────────────────────────────────┘
```
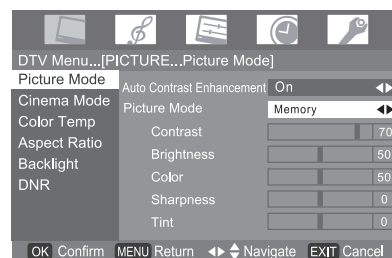
4 Press ▽ or △ to select an item you want to adjust, then press ◁ or ▷ to adjust the settnig as required.

```
┌──────────────────────────────────────┐
│ ▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭▭        100         │
└──────────────────────────────────────┘
```

Selection	◁	Pressing	▷
Contrast	lower		higher
Brightness	darker		lighter
Color	paler		deeper
Sharpness	softer		sharper
Tint	reddish		greenish

Notes:
• *The **Tint** may only be adjusted on a tape which has been recorded and played back on an NTSC VCR.*
• *In the PC input mode (☞ page 23) **Sharpness** mode is not available.*

19

Activating the DNR (Digital Noise Reduction)

If the receiving signal is weak and the picture is blurry, the picture may be improved when using this function.

1 From the **Picture** menu, press ▽ or △ to select **DNR** then press OK .

2 Press▽ or △ to select an item you want to adjust, press◁ or ▷ to adjust the settings as required.

```
            🖼    🎷    📋    🕐    🔧
  DTV Menu...[PICTURE...DNR]
  Picture Mode
  Cinema Mode      Noise Reduction - Spatial    Off    ◄►
  Color Temp       Noise Reduction - Specke      Off    ◄►
  Aspect Ratio     Noise Reduction - Temporal    On    ◄►
  Backlight
  DNR


  OK  Confirm   MENU Return  ◄►▲ Navigate   EXIT Cancel
```

Note:
In the PC input mode, this mode is not available.

Selecting the color temperature

You can change the tone of the picture by selecting from three preset color temperatures: **Cool**, **Normal** or **Warm**.

1 From the **Picture** menu, press ▽ or △ to select **Color Temp** then press OK .

2 Press ◁ or ▷ to select mode you prefer.

```
            🖼    🎷    📋    🕐    🔧
  DTV Menu...[PICTURE...Color Temp ]
  Picture Mode
  Cinema Mode      Color Temp    Cool    ◄►
  Color Temp
  Aspect Ratio
  Backlight
  DNR


  OK  Confirm   MENU Return  ◄►▲ Navigate   EXIT Cancel
```
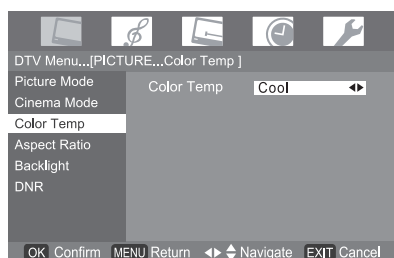
Cool: Lends a blue hue to the picture.
Normal: Neutral
Warm: Lends a red hue to the picture.

Using the active backlight control

In order to improve screen visibility, the active backlight control sets the screen brightness automatically during dark scenes.

1 From the **Picture** menu, press ▽ or △ to select **Backlight** then press OK .

2 Press ◁ or ▷ to select **Off** or **On**.

```
            🖼    🎷    📋    🕐    🔧
  DTV Menu...[PICTURE...Backlight ]
  Picture Mode
  Cinema Mode      Active Backlight Control   On    ◄►
  Color Temp        Backlight Setting              100
  Aspect Ratio
  Backlight
  DNR


  OK  Confirm   MENU Return  ◄►▲ Navigate   EXIT Cancel
```
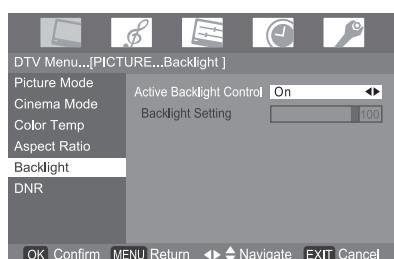
3 If you want to adjust **Backlight** manually, turn **Active Backlight Control** to **Off**, then press ▽.

```
            🖼    🎷    📋    🕐    🔧
  DTV Menu...[PICTURE...Backlight ]
  Picture Mode
  Cinema Mode      Active Backlight Control  Off    ◄►
  Color Temp        Backlight Setting              100
  Aspect Ratio
  Backlight
  DNR


  OK  Confirm   MENU Return  ◄►▲ Navigate   EXIT Cancel
```
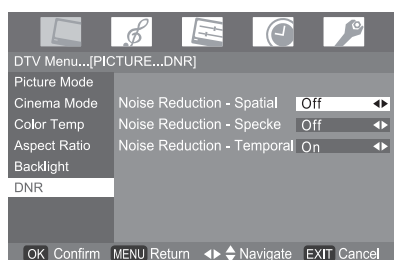
4 Press ◁ or ▷ to adjust the settings as required.

```
  ████████████████████  100
```
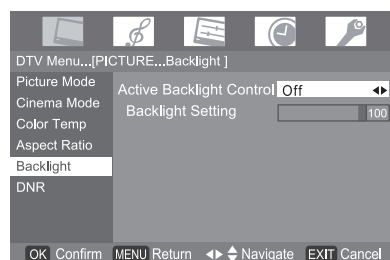
Using the cinema mode

A movie film's picture runs at 24 frames a second, whereas movie software such as DVD, etc., that you enjoy watching on television at home runs at 30 (NTSC) or 25 (PAL) frames a second. To convert this signal to reproduce a smooth motion and picture quality, select the **On** mode.

Effective signal and setup conditions:
• When the Video input mode is selected.
• When the input signal format is 480i and 576i signals.

1 Press MENU , then press ◁ or ▷ to display the **PICTURE** menu then press OK .

2 Press ▽ or △ to select **Cinema Mode** then press OK .

3 Press ◁ or ▷ to turn **On** or **Off**.

```
            🖼    🎷    📋    🕐    🔧
  Menu...[PICTURE...Cinema Mode]
  Picture Mode
  Cinema Mode      Cinema Mode    Off    ◄►
  Color Temp
  Aspect Ratio
  Backlight
  DNR


  OK  Confirm   MENU Return  ◄►▲ Navigate   EXIT Cancel
```
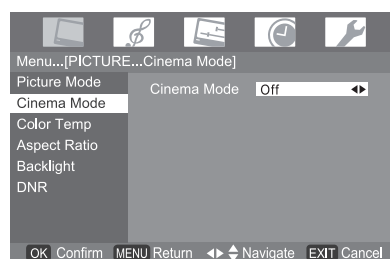
Note:
When a DVD movie with subtitle is playing back, this mode may not work correctly.
Cinema Mode *only support to ⟳1, ⟳2, HDMI 1 and HDMI 2 input sources.*

Sound adjustment

Setting the MTS (Multi-channel TV Sound)

- analog only -

Auto mode

The MTS Auto mode automatically recognize stereo/bilingual programs depending on the broadcast signal.

1   Press (MENU) , then press ◁ or ▷ to display the **SOUND** menu then press (OK) .

2   Press ▽ or △ to select **MTS**, then press (OK) and ◁ or ▷ to select **Auto** or **Mono**.

```
ATV Menu...[SOUND...MTS]
MTS
Dual
Selectable Sound           MONO        ◀▶
Bass Boost
Virtual Surround

 OK  Confirm      ◀▶ ▲▼ Navigate   EXIT  Cancel
```

Mono mode

If you experience noise or poor reception of any stereo/bilingual program, set the **Sound** mode to **Mono**.
Noise will be reduced and reception may improve.

Note:
If you experience noise with a particular program on whose channel reception is usually good, try setting MTS mode to Auto, then switch (CD1/II) to Mono (monaural).

Selecting the dual 1 or dual 2 mode

- analog only -

You can hear only dual 1 or dual 2 sound selected, whenever bilingual programs are received.

1   Press (MENU) , then press ◁ or ▷ to display the **SOUND** menu then press (OK) .

2   Press ▽ or △ to select **Dual**, then press (OK) and ◁ or ▷ to select **Dual 1** or **Dual 2**.

```
ATV Menu...[SOUND...Dual]
MTS
Dual
Selectable Sound
Bass Boost                 Dual 1      ◀▶
Virtual Surround

 OK  Confirm      ◀▶ ▲▼ Navigate   EXIT  Cancel
```

Notes:
*•   When the MTS setting is in **Mono** mode, the **Dual** menu is not selectable.*
*•   The **Dual** menu setting status remains even if the TV is turned off.*

Selecting the stereo programs **- analog only -**

1   When a stereo program is received, **Stereo** appears.

2   Press (CD1/II) to select the Auto/Mono mode. **Auto** and **Mono** appear cyclically on the screen.

```
                    Auto
```
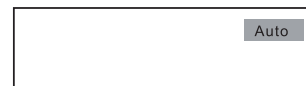
Selecting the bilingual programs **- analog only -**

1   When a bilingual program is received, **Dual** appears.

2   Press (CD1/II) to select the sound to be heard. The sound differs according to the transmission system: NICAM or German stereo/bilingual broadcast.

```
                   Dual  1
```

Display	Sound to be heard	
	NICAM	**German stereo/ bilingual broadcast**
Dual 1	Sub I sound	Main sound
Dual 2	Sub II sound	Sub sound
Mono	Main sound	---

Note:
These settings are not stored in the TV memory.

Adjusting the sound quality

1   Press (MENU) , then press ◁ or ▷ to display the **SOUND** menu then press (OK) .

2   Press ▽ or △ to select **Selectable Sound**, then press (OK) and ◁ or ▷ to select **Standard, Movie, Music and User.**

```
DTV Menu...[SOUND...Selectable Sound]
Selectable Sound
                  Selectable Sound  User      ◀▶
Bass Boost
Virtual Surround  Bass Setting              6

                  Treble Setting           10

                  Balance Setting           0

 OK  Confirm  MENU Return  ◀▶ ▲▼ Navigate  EXIT  Cancel
```
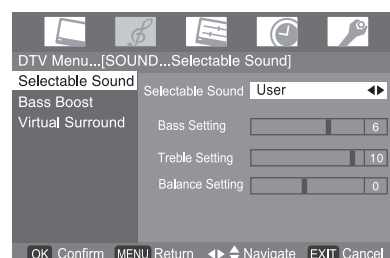
3   In **User** item **,** you can press ▽ or △ to select an item you want to adjust, press ◁ or ▷ to adjust the settings as required.

When you select **Standard, Movie** or **Music,** the setting was fixed and can't adjust.

Selection	◁ Pressing	▷
Bass	weaker	stronger
Treble	weaker	stronger
Balance	decreases the right channel	decreases the left channel

Using the Bass Boost

1 From the **SOUND** menu, press ▽ or △ to select **Bass Boost** then press ⊙ .

2 Press ◁ or ▷ to select **Off**, **Low**, **Mid** and **High**.

DTV Menu...[SOUND...Bass Boost]
Selectable Sound   Bass Boost   Off
Bass Boost
Virtual Surround
OK Confirm   MENU Return   ◀▶ ♦ Navigate   EXIT Cancel

Note:

The Bass Boost effect is active only when the sound outputs from the speaker.

Using the Virtual Surround

The **Virtual Surround** is especially useful if you want to setting up virtual surround for TV.

1 From the **SOUND** menu, press ▽ or △ to select **Virtual Surround** then press ⊙ .

2 Press ◁ or ▷ to select **Off** or **On**.

DTV Menu...[SOUND...Virtual Surround]
Selectable Sound   Virtual Surround   Off
Bass Boost
Virtual Surround
OK Confirm   MENU Return   ◀▶ ♦ Navigate   EXIT Cancel

Notes:

The **Virtual Surround** *effect is active only when the sound outputs from the speaker.*

When the **Selectable Sound** *setting isn't in* **User** *mode, the* **Virtual Surround** *menu is not selectable.*

The timers

Setting the Current Time
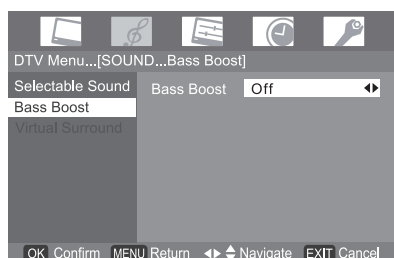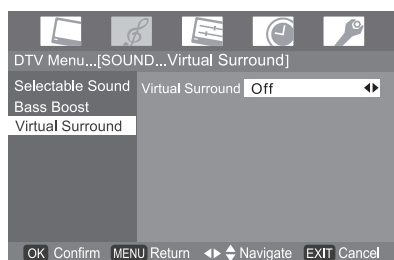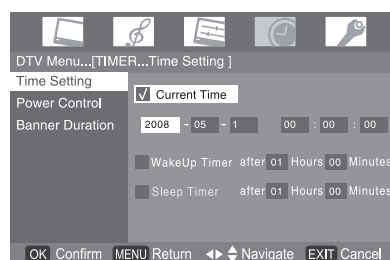
The **Current Time** is especially useful if you want to setting up current time for TV.

1 Press ⓜ , then ◁ or ▷ to display the **TIMER** menu, then press ⊙ .

2 Press ▽ or △ to select **Time Setting**, then press ⊙ .

3 Press ▽ or △ to select **Current Time**, then press ⊙ .

DTV Menu...[TIMER...Time Setting]
Time Setting
Power Control   ☑ Current Time
Banner Duration   2008 – 05 – 1   00 : 00 : 00
                     ☐ WakeUp Timer   after 01 Hours 00 Minutes
                     ☐ Sleep Timer   after 01 Hours 00 Minutes
OK Confirm   MENU Return   ◀▶ ♦ Navigate   EXIT Cancel

4 Press ▷ into the Timer data position and press ▽ or △ to set up current time.

5 Press ⊙ to save the **Time Setting**.

Note:

If TV receives time information in digital TV signal, TV will automatically update current time.

Setting the Wakeup Timer

The Wakeup timer is especially useful if you want the TV to turn itself on after a selected period of time.

1 Press ⓜ , then ◁ or ▷ to display the **TIMER** menu, then press ⊙ .

2 Press ▽ or △ to select **Time Setting**, then press ⊙ .

3 Press ▽ or △ to select **Wakeup Timer**, then press ⊙ .

DTV Menu...[TIMER...Time Setting]
Time Setting
Power Control   ☐ Current Time
Banner Duration   2008 – 05 – 1   00 : 00 : 00
                     ☑ WakeUp Timer   after 01 Hours 00 Minutes
                     ☐ Sleep Timer   after 01 Hours 00 Minutes
OK Confirm   MENU Return   ◀▶ ♦ Navigate   EXIT Cancel

4 Press ▷ into the Timer data position and press ▽ and △ to set the time period.

5 Press ⓔ to exit Menu.

6 Press ⏻ on the remote control or control panel.

Setting the Sleep Timer

The **Sleep Timer** is especially useful if you want the TV to turn itself off after a selected period of time.

1 Press ⓜ , then ◁ or ▷ to display the **TIMER** menu, then press ⊙ .

2 Press ▽ or △ to select **Time Setting**, then press ⊙ .

3 Press ▽ or △ to select **Sleep Timer**, then press ⊙ .
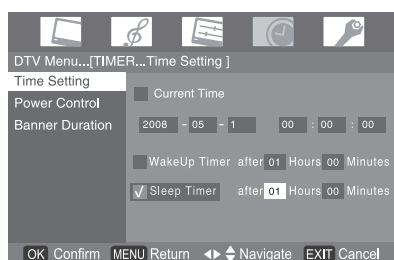
4 Press ▷ into the **Timer** data position and press ▽ and △ to set the time period.

5 Press (EXIT) to start the timer.

Notes:
*After power code unplug/plug, the **Timer** setting change to default.*

Setting the Power Control

1 Press (MENU) , then ◁ or ▷ to display the **Timer** menu, then press (OK) .

2 Press ▽ or △ to select **Power Control**, then press (OK) .

3 Press ▽ or △ to select which you want adjust, then press ◁ or ▷ to set function.
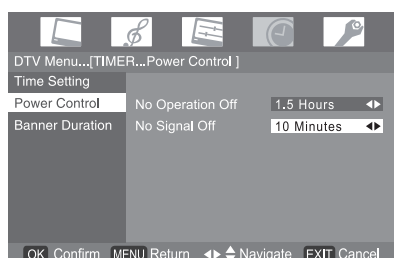
A. **No Operation Off** can be set Disable or 1 to 6 hours.

B. **No Signal Off** can be set Disable or 5 to 45 minutes.

Notes:
- *If you set No Operation Off for 1~6 hours, it will automatically power off when you do not do any operation.*
- *If you set No Signal Off for 5~45 minutes, it will automatically power off when input has no signal.*
- ***Power Control** function (No Signal Off) will work only on the ATV, ⊕1, ⊕2, PC, HDMI and DTV sources.*

Setting the Banner Duration - digital / analog -

1 Press (MENU) , then ◁ or ▷ to display the **TIMER** menu, then press (OK) .

2 Press ▽or △ to select **Banner Duration**, then press (OK).

3 Press ◁ or ▷ to set **Banner Duration** which can be set 1 to 12 seconds.
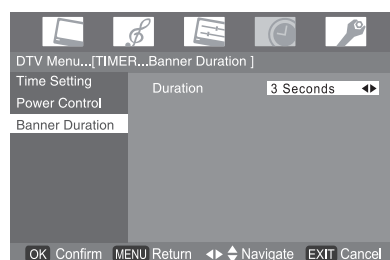
Notes:

- ***Banner Duration** function is setting on-screen information display timing.*
- *On-Screen-Display will remain about 1 minute.*

Selecting the video input source to view

1 Press ⊕ on the remote control to display the video input mode list, then press▽ or △ to select appropriate input source. You may also press (i+) to display the video input mode.
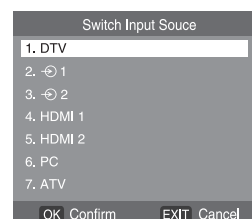
Ex. PC VGA MODE

2 Press (OK) .
DTV (Digital TV)
⊕ **1** (CVBS input or component video input)
(☞ *page 27*)
⊕ **2** (CVBS input or S-video input) (☞ *page 27*)
HDMI 1, **HDMI 2** (HDMI input)
PC (PC input)
ATV (Analog TV)

23

Teletext in Analog TV

This TV has a multi-page teletext memory, which takes a few moments to load and it offers two ways of viewing Teletext Auto and LIST which are explained below.

Setting up the teletext mode

To select teletext mode:
Select a channel position with the desired teletext service.

1 Press (MENU) , then press ◁ or ▷ to display the **FUNCTION** menu.

ATV Menu...[FUNCTION...Teletext Mode]
Reset to default
AV Connection
Password
Parental Rating
Teletext Mode

OK Confirm MENU Return ◀▶ ▲▼ Navigate EXIT Cancel

2 Press ▽ or △ to select **Teletext Mode**, then press ◁ or ▷ to select **Auto** or **LIST** mode.

ATV Menu...[FUNCTION...Teletext Mode]
Reset to default
AV Connection   Teletext Mode   Auto   ◀▶
Password
Parental Rating
Teletext Mode

OK Confirm MENU Return ◀▶ ▲▼ Navigate EXIT Cancel

Teletext general information

◨/▨/▢ button:

Pressing ◨/▨/▢ once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change channels.
When you first press ◨/▨/▢ to access the text service, the first page you see will be the initial page.
In **Auto** mode, this displays the main subjects available and their relevant page numbers.
In **LIST** mode, you will see the page numbers currently stored on the **each color** button.

Sub-pages:
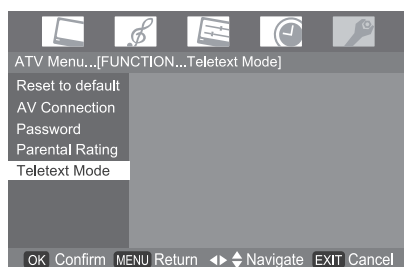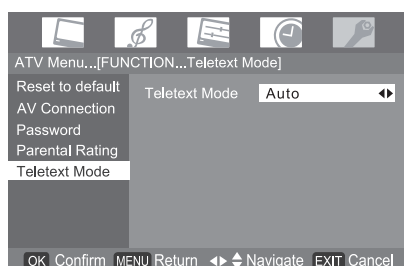Once in this chosen page, if there are sub-pages they will automatically load into memory without changing the one you are reading. If there are many sub-pages, it will take a long time for them all to load and this will depend on the speed with which the broadcaster transmits them.
To access the sub-pages in memory, press ▣ , then use ◁ or ▷ to view them.

Note:
If you press ▼ while the picture mode is activated, this mode will be cancelled.

Using Auto mode

There are two Modes: **Auto** will display FASTEXT or TOPTEXT, if available. **LIST** will display your four favorite pages. In either mode, as an alternative to the colored buttons, you can access a page by entering a 3-digit number, using the **Number** buttons on the remote control, or to advance to the next page, press P∧ or △, to go back to the previous page press P∨ or ▽.

To change between **Auto** and **LIST**, see above.

• Press ◨/▨/▢ to access teletext.

Ex. FASTEXT

100   Sport   14:57:55

Football Baseball   Racing   Swimming
  Red   Green   Yellow   Blue
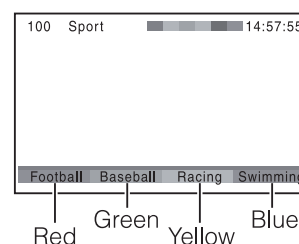
If FASTEXT or TOPTEXT is available, you will see 4 colored titles at the bottom or top of the TV screen respectively. To access any given subject, simply press the relevant colored button on the remote control.

If FASTEXT or TOPTEXT is not available, you can access any page simply by entering a 3-digit page number or pressing the corresponding colored button.

For further information on your particular text system(s), see the broadcast teletext index page or consult your local Toshiba dealer.

Using LIST mode

1 Press ◨/▨/▢ to access teletext.

100   TEXT M00   14:58:55

100   200   300   400
  Red   Green   Yellow   Blue
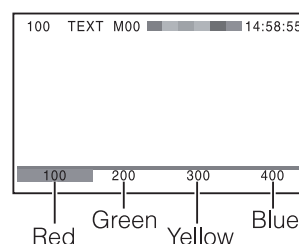
The four choices at the bottom of the screen are now number – **100**, **200**, **300** and **400**, which have been programmed into the TV's memory.

2 To view these pages, use the colored prompt buttons.
e.g. press the Green button to view page 200.

3 If you want to change these stored pages, press the colored button for the color you want to change.
e.g. Press the Green button and enter the 3-digit number.

250   TEXT M00   14:58:59

100   250   300   400
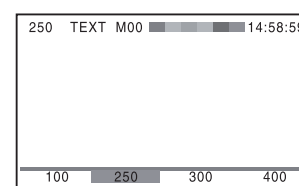
This number will change in the top left of the screen and in the colored highlight.

4 Press ⓄⓀ to store your choice. The bars at the bottom of the screen will flash white.

5 You may view other pages by simply entering the 3-digit page number – but NEVER press ⓄⓀ or you will lose the favorite already stored.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

≡i To display an index/initial page:
In Auto mode

Press ≡i to access the index page. The one displayed is dependant on the broadcaster.

In LIST mode

Press ≡i to return to the 100 page or initial page.

≡? To reveal concealed text:

Some pages cover topics such as quizzes and jokes. To discover the solutions, press ≡? .

≡ To hold a wanted page:

This function is included as it is part of the broadcast teletext system but you will not need it as this TV allows you to control the display of sub-pages.

≡ To enlarge the teletext display size:

Press ≡ once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

⊙/⊠ To select a page while viewing a normal picture:

When in teletext mode, if a page selection is made and then ⊙/⊠ is pressed, a normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press ≡/⊠/▢ to view the page.

Note:
It will not be possible to change program position while in Teletext mode, you will have to cancel the teletext first by pressing ≡/⊠/▢ to return to a normal TV picture.

To select the time display :

If you press ⊙/⊠ while watching a normal TV broadcast, you will see a time display from the broadcaster. It will remain on the screen for about 5 seconds.

9:56 and 25 seconds p.m.

21:56:25
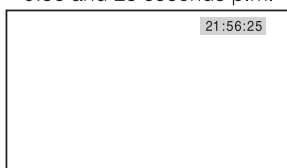
Teletext in Digital TV

1 When ⓘ⁺ indicates the presence of Teletext (TTX) in a channel, press ⟦TEXT⟧ to view Teletext. Press ⟦TEXT⟧ again to superimpose the Teletext over a normal broadcast picture. Press again to close Teletext and watch TV.

2 Press **P∧** and **P∨** to select Teletext page. Press the **Number** buttons to input a Teletext page to view the page directly. If FASTEXT is available, simply press the relevant colored button on the remote control.

3 Press ⟨EXIT⟩ to close the Teletext and watch TV.

Reset to default setting

When any user require to reset adjustment values of the Picture, Sound, Setup, Timer and Function that can use **Reset to default** to back factory default setting.

1 From the **FUNCTION** menu, press ▽ or △ to select **Reset to default** and press ⓄⓀ .

Menu...[FUNCTION...Reset to default]

Reset to default
AV Connection

Reset to default Confirm

⚠ This will do reset to default. Are you sure?

OK Confirm   MENU Return   ◄► Navigate   EXIT Cancel
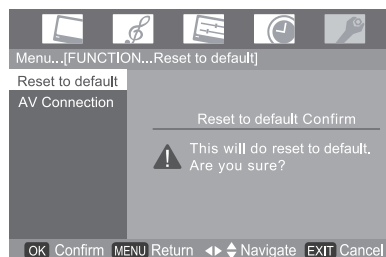
2 Press ⓄⓀ , a confirmation screen will appear indicating that **This will do Reset to default, Are you sure?**

3 Press ⓄⓀ to start the **Reset to default** then TV will be power off automatically.

4 Press ⏻ , it will appear initial screen as **Tuning the TV for the first time** *(☞ page 13)*.

Note:
Password won't be reset.

Setting the EPG (Electronic Program guide) - digital only -

1 Press [MENU] , then ◁ or ▷ to select **Function** menu.

2 Press [OK] and ▽ or △ to select **EPG** then, press [OK] to display **EPG**.

DTV Menu...[FUNCTION...EPG]

Reset to default
AV Connection
Password
Parental Rating
Channel Lock
EPG

OK Confirm MENU Return ◀▶ ⬥ Navigate EXIT Cancel

3 Press △,▽,◁,▷to select the channel, names of the program being broadcast will appear.

⬡ Channel Schedule   09:35 02.12, 2004

08:00 - 10:29 Good Morning Australia

Hosted by Bert Newton.

SERVICE NAME	09:30	10:00	10:30	11:00
TEN HD	Good Morning Australia	Huey''s Cookin	Reading...
TEN Digital	Good Morning Australia	Huey''s Cookin	Reading...
TEN Digital	Good Morning Australia	Huey''s Cookin	Reading...
Start	Reading...		
TEN Digital 1	Reading...		
TEN Digital 1	Reading...		

⬥Channel ◀▶Pronram Event ⬤ Previous Day ⬤ Next Day OK Event List EXIT Return

4 Press [OK] , then **Event List** will appear.

Event List

ID	1	◀▶
Service		
Type	ONCE	◀▶
Time	00:00	
	hh:mm	
Date	00/00/2000	
	DD/MM/YYYY	
Duration	0 Minutes	
Status	OFF	◀▶

0-9 Number
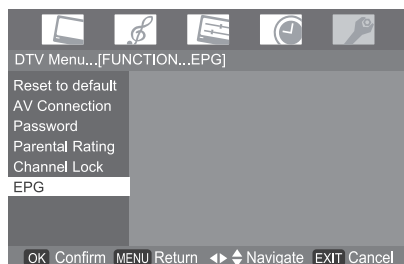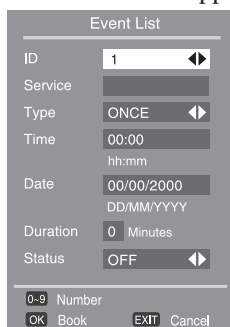OK Book   EXIT Cancel

5 Press △ or ▽ to select an item, then press ◁ or ▷ to change the content, then press [OK] to save.
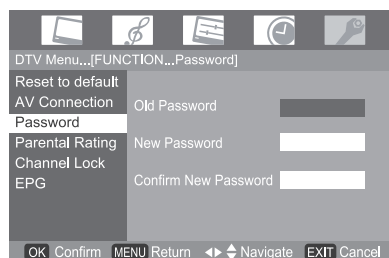
Note:
*Toshiba does not provide **EPG** data; therefore Toshiba is not liable for the content of such data. The data provider may elect to discontinue the service or it may cease to be (or never be) available in your area. In any of these circumstances, the **EPG** feature will not function. Toshiba is not liable in the event that this service is unavailable or for any consequences arising from customers having used or not being able to use this service.*

Password

In Digital TV, channels and programs can be locked to prevent viewing of unsuitable films and programs. These can only accessed with a password. Default password is 0000.

Setting the Password

1 Press [MENU] , then press ◁ or ▷ to select the **FUNCTION** menu.

2 Press [OK] and press ▽ or △ to select **Password**, then press [OK] .

DTV Menu...[FUNCTION...Password]

Reset to default
AV Connection   Old Password
Password
Parental Rating   New Password
Channel Lock
EPG   Confirm New Password

OK Confirm MENU Return ◀▶ ⬥ Navigate EXIT Cancel

3 Enter your password using the number buttons or press 0000 (which is the default password), then press▽.

4 Press ▽ and enter your new password, then press ▽ to confirm again, then press [OK] .

Note:
Note: If you forgot the password, press [Green], [Yellow] , [OK] and [EXIT] buttons on the remote control so that the password returns to the default setting (0000).

Parental Rating

The type of program displayed on the TV can be limited based on the parental guidance codes. See Appendix for Australian parental guide code.

Setting the Parental Rating

1 Press [MENU] , then press ◁ or ▷ to select the **FUNCTION** menu.

2 Press [OK] and▽ or △ to select **Parental Rating**, then press [OK] .

DTV Menu...[FUNCTION...Parental Rating]

Reset to default
AV Connection
Password
Parental Rating   Password
Channel Lock
EPG

OK Confirm MENU Return ◀▶ ⬥ Navigate EXIT Cancel
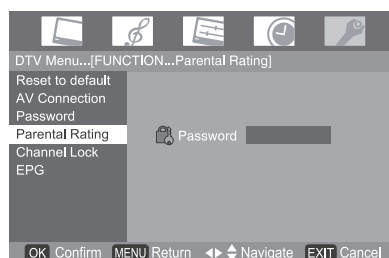
3 Enter password when prompted.

4 Press ◁ or ▷ to select the suitable Rating, then press [OK] to save.

AV Connection

1 Press 🅜 , then press ◁ or ▷ to select the **FUNCTION** menu.

2 Press 🆗 and press ▽ or △ to select **AV Connection**, then press 🆗 .

```
DTV Menu...[FUNCTION...AV Connection]
Reset to default
AV Connection     Video 1        YPbPr        ◀▶
Password          Video 2        CVBS         ◀▶
Parental Rating
Channel Lock
EPG

OK  Confirm   MENU Return   ◀▶ ⬍ Navigate   EXIT Cancel
```
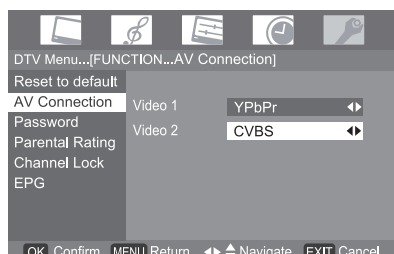
3 Press ▽ or △ to select **Video 1** or **Video 2**, then press ◁ or ▷ to select input source as required.
Video 1 selections are **YPbPr** and **CVBS**.
Video 2 selections are **CVBS** and **S-Vide.**

```
DTV Menu...[FUNCTION...AV Connection]
Reset to default
AV Connection     Video 1        YPbPr        ◀▶
Password          Video 2        S-Video      ◀▶
Parental Rating
Channel Lock
EPG

OK  Confirm   MENU Return   ◀▶ ⬍ Navigate   EXIT Cancel
```
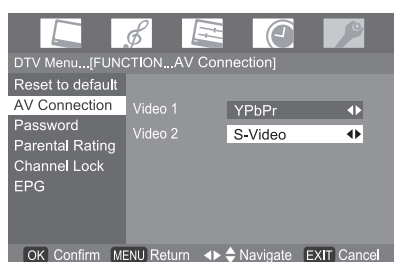
Notes:

Default settings of Video1 is YPbPr input. And default settings of Video2 is CVBS input.
You can select YPbPr input, CVBS input or S-Video input from AV Connection.
i.e.: CVBS - Composite Video
*   YPbPr - Component Video*

Subtitle

1 When on-screen information indicates the presence of Subtitle (CC) in a channel, press 🔲 to display the current **Subtitle** status. While this status is displayed, press again to change the setting. Subtitle On or Off can be selected.

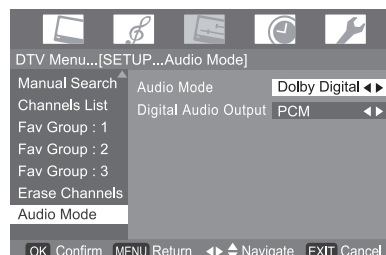**2** If you switch off the TV, the **Subtitle** mode will be remembered the next time it is switch ON.

Notes:

• *If **Subtitle** is ON, the TV will always display subtitle whenever such information is available in the channel you are viewing. You may use 🔲 to check if subtitle is currently available.*

• *In Australia, you may also view **Subtitle** by directly entering page 801 in Teletext. However, by doing so, the TV remains in Teletext mode and you cannot change the channels because P∧ and P∨ will change Teletext pages rather than channels. To view subtitle, it is recommended that you turn on Subtitle mode.*

• *If **Subtitle** is ON, When user press 🔲 on remote control that audio mute function can work but the TV won't display mute icon in screen.*

Audio Preference

Selecting The Audio Mode

1 From the **SETUP** menu, press ▽ or △ to select **Audio Mode**, then press 🆗 .

2 Press ▽ or △ to select **Audio Mode** or **Digital Audio Output** then press ◁ or ▷ to select mode.

```
DTV Menu...[SETUP...Audio Mode]
Manual Search      Audio Mode            Dolby Digital ◀▶
Channels List      Digital Audio Output  PCM          ◀▶
Fav Group : 1
Fav Group : 2
Fav Group : 3
Erase Channels
Audio Mode

OK  Confirm   MENU Return   ◀▶ ⬍ Navigate   EXIT Cancel
```

3 Press ◁ or ▷ to select **Dolby Digital** or **MPEG**.

Dolby Digital
If you select this option, the TV will select the first Dolby Digital audio track, if available. However, if the channel does not contain any Dolby Digital audio track, then the first available MPEG audio track will be selected.

MPEG
If you select this option, the TV will select the first MPEG audio track, if available. However, if the channel does not contain any MPEG audio track, then the first available Dolby Digital audio track will be selected.

Note:
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Digital Output Format

1 From the **Audio Mode**, press ◁ or ▷ to select **Digital Audio Output**.

2 Press ◁ or ▷ to select **Bitstream** or **PCM**.
Bitstream: Select this when an amplifier equipped with builtin Dolby Digital or MPEG decoder is connected to this TV.
PCM: Select this when a 2ch digital stereo amplifier is connected to this TV. When you select a Dolby Digital or MPEG audio track in Audio Track, the sound is converted to the PCM (2ch) format and output.

Back connections

Connection example

TV back view
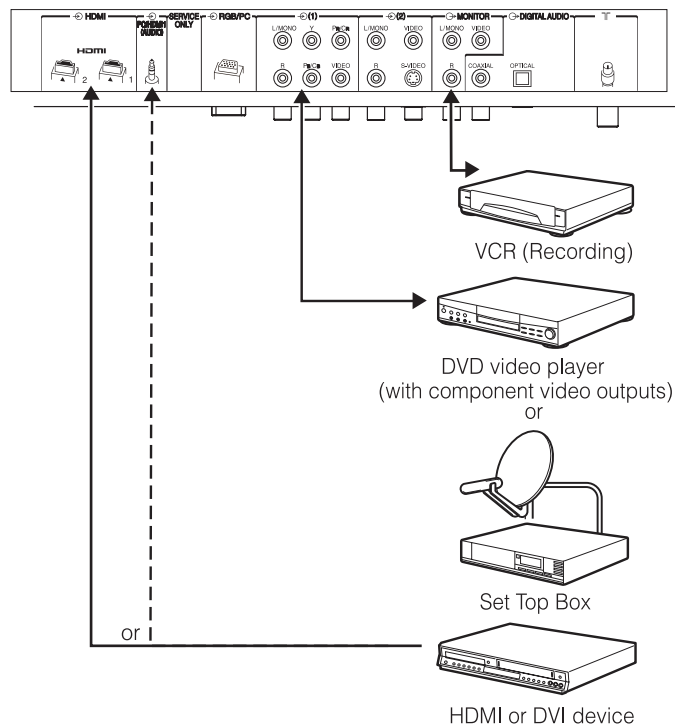
- Before connecting any external equipment, turn off all main power switches.
- The unauthorized recording of television programs, DVDs, video tapes and other materials may infringe upon the provisions of copyright law.
- The **COMPONENT VIDEO INPUT** consists of three component video signals (**Y, P_B/C_B, P_R/C_R**) and provides the best picture performance. These terminals can only be used with the component video compatible equipment e.g. DVD video player, etc.
- Additional equipment and cables shown are not supplied with this TV.
- **MONITOR OUTPUT**
  That will only support ATV/DTV signal to display out or by VCR TV signal recording use.
- If you connect mono sound equipment to **MONITOR OUTPUT**, connect the audio input of the equipment to the **L/MONO** jack on the TV.

Connecting an audio system - digital only -

You can enjoy high quality dynamic sound by connecting the TV to an audio system.

Notes:
- *DO NOT connect the **DIGITAL AUDIO** output terminal to the AC-3 RF input of a Dolby Digital Receiver with a built-in Dolby Digital decoder.*
- *Connect the **DIGITAL AUDIO** output terminal to the **Optical** or **Coaxial** input of a Receiver or Processor.*
- *Refer to the owner's manual of the connected equipment as well.*
- *When you connect the TV to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.*
- *The output sound of the TV has a wide dynamic range. Be sure to adjust the audio amplifier's volume to a moderate listening level before turning on the power. Otherwise, the speakers and your hearing may be damaged by a sudden high volume sound.*
- *Turn off the amplifier before you connect or disconnect the TV's power cord. If you leave the amplifier power on, the speakers may be damaged.*

Warning:
*When you are connecting (via the **DIGITAL AUDIO** output terminal) an AV decoder that does not have Dolby Digital or MPEG decoding function, be sure to set **PCM** in Digital Output (☞page 27). Otherwise, the speakers and your hearing may be damaged by a sudden high volume sound.*

Connecting an amplifier equipped with a Dolby Digital decoder
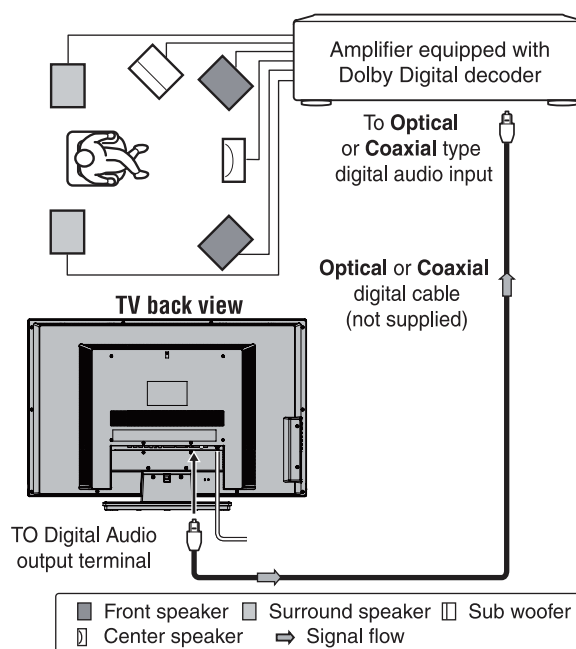
You can enjoy dynamic realistic sound by connecting the TV to an amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. When using this setup, select **Bitstream** in Digital Output menu.

Connecting an amplifier equipped with an MPEG decoder

TV back view

TO Digital Audio output terminal

■ Front speaker ▨ Surround speaker ▯ Sub woofer
▷ Center speaker ⇨ Signal flow
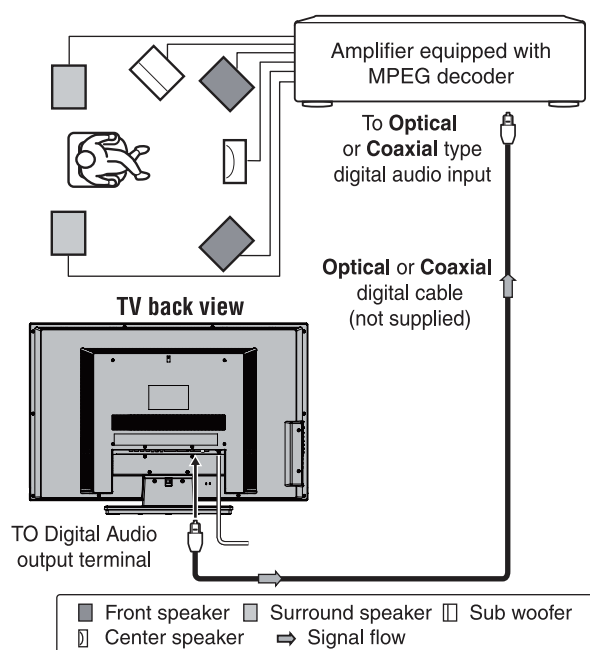
You can enjoy motion picture with dynamic realistic sound by connecting the TV to an amplifier equipped with an MPEG audio decoder or MPEG audio processor. When using this setup, select **Bitstream** in Digital Output menu.

Connecting an amplifier equipped with a digital audio (optical or coaxial) input

TV back view

TO Digital Audio output terminal

■ Front speaker ⇨ Signal flow

You can enjoy dynamic sound of 2-channel digital stereo by connecting the TV to an amplifier equipped with a digital audio (optical or coaxial) input and speaker system (right and left front speakers). When using this setup, select **PCM** in Digital Output menu.

Side connections
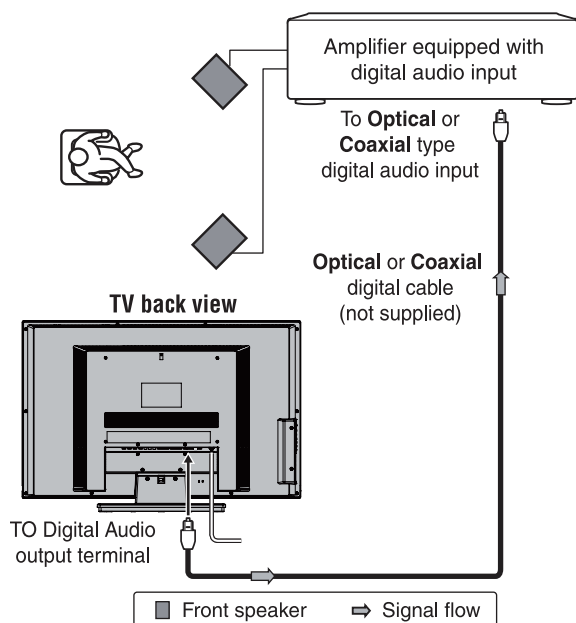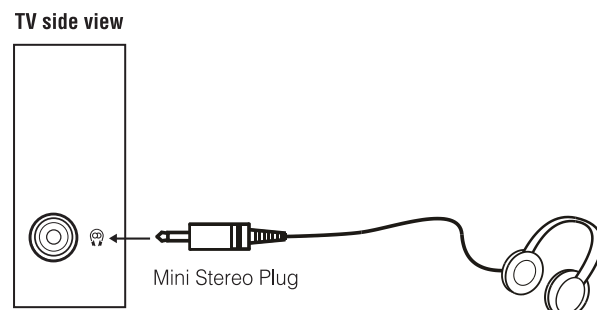
Connection example

TV side view

Mini Stereo Plug

• The audio from the speaker will be muted when connecting the headphone to this terminal.

Connecting an HDMI or a DVI device

• This TV is not intended for connection to and should not be used with a PC.
• When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
• When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.
• This TV may not be compatible with features and/or specifications that may be added in the future.
• This TV is only operable with L-PCM on 32/44. 1/48 kHz and 16/20/24 bits.

Connecting an HDMI or a DVI device

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device.
This input is designed to accept HDCP program material in digital from EIA/CEA-861/861B compliant consumer electronic devices (such as a set top box or DVD player with HDMI or DVI output).
The HDMI input is designed for best performance with 1080i (50 Hz/60 Hz), 1080p (50Hz/60Hz) high-definition video signals, but will also accept and display 480i, 480p, 576i, 576p, 720p (50 Hz/60 Hz (60Hz: except for the E-EDID)) and VGA signals.

• **HDMI**: High-Definition Multimedia Interface
• **DVI**: Digital Video Interface
• **HDCP**: High-bandwidth Digital Content Protection
• EIA/CEA-861/861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.
• **E-EDID**: Enhanced-Extended Display Identification
• **VGA**: VESA 640 x 480 @ 60 Hz
• **L-PCM**: Linear-Pulse Code Modulation

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Connecting an HDMI device

One HDMI cable (type A connector)

TV back view
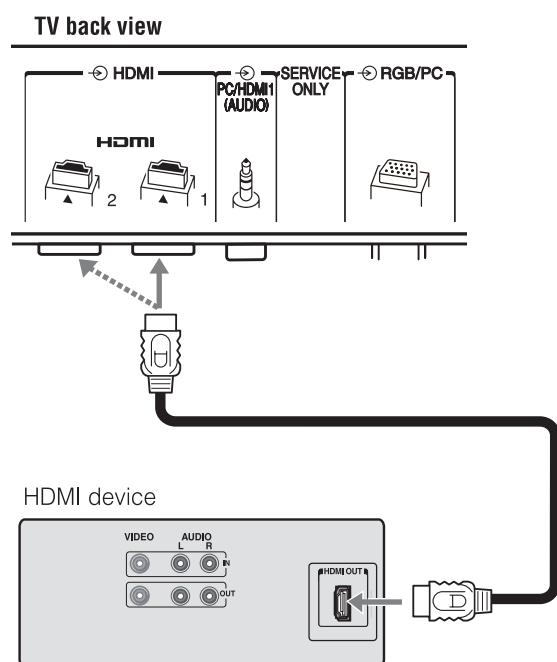
HDMI device

For proper operation, it is recommended that you use a short HDMI cable.
HDMI cable transfers both video and audio.

Note:
- *It is possible that some HDMI device may not operate properly with this TV.*
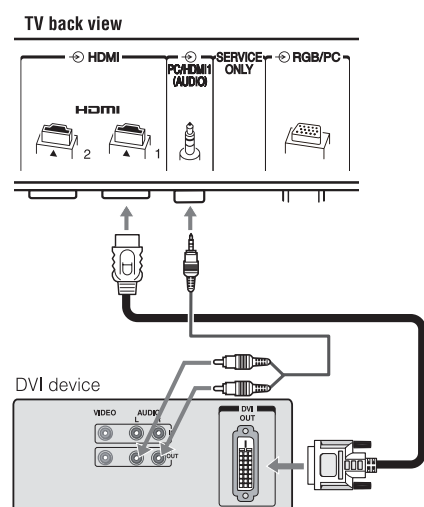
Connecting a DVI device

One HDMI (type A connector)-to-DVI adapter cable and audio cables.

TV back view

DVI device

HDMI (type A connector)-to-DVI adapter cable

For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 3m. The recommended length is 2m.

Standard analog audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analog audio cables are required.

Note:
HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Connecting a computer

An analog RGB (15 pin) computer cable can be connected.

TV back view

Mini D-sub 15 pin

Computer

Audio cable for PC-to-TV connection

RGB PC cable

Conversion adapter (if necessary)
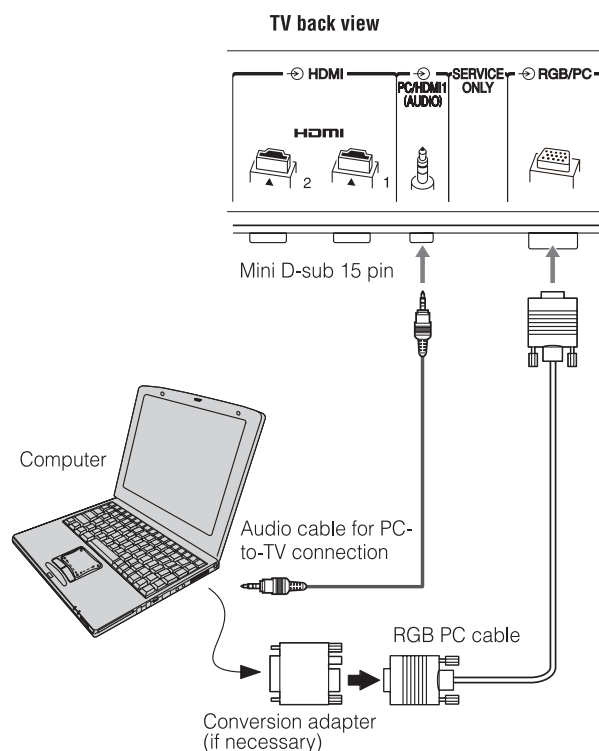
Connect a PC cable from the computer to the ⊙ **RGB/PC** terminal on the back of the TV.

The following signals can be displayed:

- VGA: VESA 640 x 480 @ 60/72/75 Hz
- SVGA: VESA 800 x 600 @ 60/72/75 Hz
- XGA: VESA 1024 x 768 @ 60/70/75 Hz
- W-XGA: VESA 1280 x 768 @ 60/75 Hz
- W-XGA: VESA 1360 x 768 @ 60 Hz
- S-XGA: VESA 1280 x 1024 @ 60/75 Hz (Compressed)

However, these signal formats are converted to match the number of pixels of the LCD panel.

Therefore, the TV may not display small text properly.

If you connect this unit to your PC, the compressed image is displayed in S-XGA mode, therefore the picture quality may deteriorate and characters may not be read.

Notes:

- *Some PC models cannot be connected to this TV.*
- *There is no need to use an adapter for computers with DOS/V compatible mini D-sub 15 pin terminal.*
- *A bar may appear in the upper, lower, right or left side of the screen, or parts of the picture may be obscured depending on some signals. This is not the malfunction.*
- *If the edges of the picture are stretched, readjust the picture position adjustments in the **VGA SET** of **PICTURE** menu.*
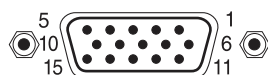- *Depending on the specification of the PC you are playing the DVD-Video on, and the DVD's title, some scenes may be skipped, or you may not be able to pause during multi-angle scenes.*

Signal names for mini D-sub 15 pin connector
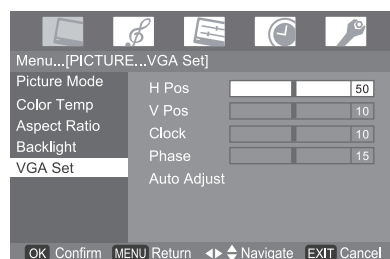
Pin assignment for RGB/PC terminal

Pin No.	Signal name	Pin No.	Signal name
1	R	9	VGA-5V
2	G	10	Ground
3	B	11	NC (not connected)
4	NC (not connected)	12	VGA-SDA
5	NC (not connected)	13	H-sync
6	Ground	14	V-sync
7	Ground	15	VGA-SCL
8	Ground		

Using the PC setting

- First press ⊕ to display the video input mode list, then press ▽ or △ and ⊙Ⓚ in order to select the PC input mode (☞ page 23).
- This function may not be available for some signal or if no signal is received.
- The optimum points of the clock phase and sampling clock adjustments may be incomprehensible according to the input signals.

Adjusting the picture size/position, the clock phase of the picture and sampling clock

1 Press ⓶ⓔⓝⓤ , then press ◁ or ▷ to display the **PICTURE** menu, than press ⓞⓚ .

2 Press ▽ or △ to select **VGA Set** menu.

Menu...[PICTURE...VGA Set]
Picture Mode
Color Temp
Aspect Ratio
Backlight
VGA Set

H Pos 50
V Pos 10
Clock 10
Phase 15
Auto Adjust

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel

3 Press ⓞⓚ or ▷ to select an option you want to adjust. Press ◁ or ▷ to adjust the settings as required.

PC of the Auto Adjust

Adjust Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically. Depending on the type of the signal, there is a possibility that the display may not be adjusted in its optimum condition with this function. In that case, please adjust each item manually.

1 Press ⓶ⓔⓝⓤ , then press ◁ or ▷ to display the **PICTURE** menu, than press ⓞⓚ .

2 Press ▽ or △ to select **VGA Set** menu.

Menu...[PICTURE...VGA Set]
Picture Mode
Color Temp
Aspect Ratio
Backlight
VGA Set

H Pos 50
V Pos 10
Clock 10
Phase 15
Auto Adjust ▶

OK Confirm MENU Return ◄► ▲▼ Navigate EXIT Cancel
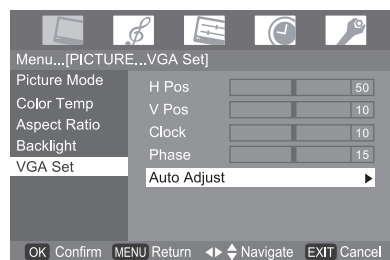
3 Press ⓞⓚ and press ▽ to select **Auto adjust**.
4 Press ▷.

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom and solution

TV will not turn on
- Make sure the power cord is plugged in, then press ⏻/| or ⏻ .
- The remote control batteries may be dead. Replace the batteries.

No picture, no sound
- Check the antenna connections.

No sound, picture OK
- The sound may be muted. Press ◁+, ◁– or ⊗ .
- The station may have broadcast difficulties. Try another channel.

Poor sound, picture OK
- The station may have broadcast difficulties. Try another channel.

Poor picture, sound OK
- Check the antenna connections.
- The station may have broadcast difficulties. Try another channel.
- Adjust the **PICTURE** menu.

Poor reception of broadcast channels
- Check the antenna connections.
- The station may have broadcast difficulties. Try another channel.
- Make sure the Color system is properly set.

Teletext problems
- Check the antenna connections.
  Good performance of text depends on a good strong broadcast signal.

Multiple images
- The station may have broadcast difficulties. Try another channel.
- Antenna reception may be poor. Use a high directional outdoor antenna.
- Check if the direction of the antenna has changed.

Poor color or no color
- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** in the **PICTURE** menu.

The remote control does not operate
- Remove all obstructions between the remote control and the remote control sensor on the TV.
- The remote control batteries may be dead. Replace them with new ones.
- Check that the TV/STB/DVD switch on the remote control is properly set.

Some pixels of the screen do not light up
- The LCD display panel is manufactured using an extremely high level of precision technology, however, sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction batteries.

The picture brightness varies when you switch the TV on.
- If you switch the TV on at 0°C and under, wait until the warms up.

The brightness of the screen comes down, or flickers of the screen are caused, or some parts of the screen do not light up.
- When you just buy and start to use this TV, a flickering may be caused in the screen. In this case, switch off the TV, then switch on it again to cure the condition.
- The cold cathode fluorescent lamp used for the back light on this TV has longevity. When the brightness of the screen comes down, or the flickers of the screen are caused, or some parts of the screen do not light up, it may reach the end of its life. Contact a service technician.

Symptom and solution - digital only -

Poor picture
- Check the antenna connections. Make sure it is aligned to the correct broadcast direction.
- Check the signal level and quality in the **Manual Search** menu.
- If you use any kind of amplifier to boost the signal level, check whether it works well, and ask for help from the antenna installer.

No picture
- Use the **Manual Search** menu to rescan this channel.
- Try another channel.
- Reduce **RF** amplifier gain if connected to **RF** booster.

No sound from DIGITAL AUDIO
- The sound may be muted. Press ◁+, ◁– or ⊗ .
- Make sure the TV is adjusted to the correct Audio Track.
- Use the Manual Search menu to rescan this channel.
- Try another channel.

Not all channels are available after using the Full Search when tuning the TV for the first time.
- This symptom is caused by unexpected frequency offset.
- The **Manual Search** menu to scan for the missing channels. The TV scan receive these channels by the **Full Search** menu most of the time, but we suggest that you use the **Manual Search** menu when tuning the TV for the first time. Once the TV picks up the signal, all the transmission parameters will be stored in the internal memory.

Cannot lock signal by using Manual Search
- Check the frequency that you have entered is exactly the Middle frequency of the wanted channel.
- Refer to the solutions for "Poor picture".

No Teletext, no Subtitle
- Make sure the channel that you are watching carries Teletext/Subtitle information from ⓘ+ .

Cannot receive channels after moving the TV between cities (e.g. from Melbourne to Sydney)
- Refer to page 13 to reset data.

Weak signal appears on one channel but not the other, but these channels have the same logical number
- Please make sure that you do not keep duplicate channels (i.e. channels with the same logical channel number but different physical numbers, see page 13). If you do, please delete the duplicate ones and keep only one channel with the best signal strength.

Program Timer and Alarm do not operate properly.
- Check the antenna connections.
- Weak signal may cause inaccurate time information.

APPENDIX

AUSTRALIAN PARENTAL GUIDANCE CODES (Normative)

Recommended On-Screen-Display for parental guidance codes transmitted within DVB-SI EIT information using the DVB parental_rating_descriptor.

			Receiver Menu Set-up and Suggested OSD wording for Setting Blocking (Restriction of access)							
			Block All	Block G and above (optional)	Block PG and above	Block M and above	Block MA and above	Block AV and above	Block R and above	No Block
Transmitted rating hex code	Australian parental guide code	On-Screen-Display	Resultant receiver action to received hex code ✔ is show program - ✗ is block until PIN entered							
0 × 00	Not Classified	-	✗	✔	✔	✔	✔	✔	✔	✔
0 × 01		-	✗	✔	✔	✔	✔	✔	✔	✔
0 × 02	**P** Pre school	**P**	✗	✔	✔	✔	✔	✔	✔	✔
0 × 03		P	✗	✔	✔	✔	✔	✔	✔	✔
0 × 04	**C** Children's	**C**	✗	✔	✔	✔	✔	✔	✔	✔
0 × 05		C	✗	✔	✔	✔	✔	✔	✔	✔
0 × 06	**G** General	**G**	✗	✗	✔	✔	✔	✔	✔	✔
0 × 07		G	✗	✗	✔	✔	✔	✔	✔	✔
0 × 08	**PG** Parental Guidance Recommended	**PG**	✗	✗	✗	✔	✔	✔	✔	✔
0 × 09		PG	✗	✗	✗	✔	✔	✔	✔	✔
0 × 0A	**M** Mature Audience 15+	**M**	✗	✗	✗	✗	✔	✔	✔	✔
0 × 0B		M	✗	✗	✗	✗	✔	✔	✔	✔
0 × 0C	**MA** Mature Adult Audience 15+	**MA**	✗	✗	✗	✗	✗	✔	✔	✔
0 × 0D		MA	✗	✗	✗	✗	✗	✔	✔	✔
0 × 0E	**AV** Adult Audience, Strong violence 15+	**AV**	✗	✗	✗	✗	✗	✗	✔	✔
0 × 0F	**R** Restricted 18+	**R**	✗	✗	✗	✗	✗	✗	✗	✔

Broadcast system

Broadcast transmission systems of each country or region

Asia M.E.

Country or region	Color	Sound
Bahrain, Kuwait, Israel, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, etc.	PAL	B/G

Oceania

Country or region	Color	Sound
Australia, New Zealand, etc.	PAL	B/G

Specifications

Integrated Digital LCD TV

Model

40CV550A

Power source

220 - 240 V AC ± 10% , 50 Hz

Power consumption

40CV550A: 185W , 0.9 W (standby)

Dimensions

40CV550A: 996.6mm (W) 682 mm (H) 276.3 mm (D)

Mass (Weight)

40CV550A: 19.1 kg

Analog TV system (Antenna input)

Channel coverage:

PAL	B/G	(CCIR)	VHF	0 - 12
			UHF	27 - 69
			CATV	C2, C10, C31, S2 - S44

Digital TV System

Compliant Standard DVB-T
Video Decoding MP @ ML & MP @ HL
Audio Decoding Dolby® Digital, MPEG (I & II)
Audio Sampling Rate 32, 44.1, 48 kHz

Digital TV Terrestrial Tuner / Demodulator

Frequency 51~858 MHz
Loop Through 51~858 MHz
Bandwidth 7 MHz
Demodulator COFDM
FFT Mode 8 K
Constellation QPSK, 64 QAM
Guard Interval 1/8, 1/16
Inner Coding Rate 2/3, 3/4

COMPONENT VIDEO INPUT terminals (the signal format)

480i, 480p, 576i, 576p, 720p (50/60 Hz), 1080i (50/60 Hz) (These signal formats are converted to match the number of pixels of the LCD panel.)

Composite Color system

PAL, SECAM, NTSC 3.58/4.43

Aspect ratio

16 : 9

Visible size (diagonal)

40CV550A: 107.1 cm

Number of pixels

40CV550A: 1,920 (H) dots x 1,080 (V) dots

Audio power

10 W + 10 W (10 % THD)

Speakers

Main 60 x 120 mm 2 pcs.

Input/Output terminals

⊕ (1)	Input	
	RCA Component Video	Y, P$_B$/C$_B$, P$_R$/C$_R$
	RCA Composite Video	CVBS
	Audio : RCA	L/Mono+R
		(shared between
		Component and
		Composite)
⊕ (2)	Input	
	RCA/Mini-Din(4 pin)	
	Composite Video(CVBS)	
	+S-video	
	Audio : RCA	L/Mono+R
		(shared between
		S-Video and
		Composite)
⊖ MONITOR	Output	
	RCA video ouput	
	Audio out RCA(L+R)	
⊕ RGB/PC	Input	
	Mini D-sub 15 pin Analog RGB	
⊕ PC/HDMI1	Input	
(AUDIO)	Phone jacks	Audio L+R
⊕ HDMI1	Input(type A)	
	19 pin	A/V Digital
⊕ HDMI2	Input(type A)	
	19 pin	A/V Digital
⊖ Digital Audio	Output	
(optical + coaxial)	Bitstream/PCM	
Headphone jack	3.5 mm (Diameter) stereo	

Operating condition

Temperature 0 °C - 35 °C

Humidity 20 % - 80 % (No moisture condensation)

Supplied accessories

Owner's manual (1), Remote control (1), Batteries (2),
Clean Cloth (1)

- Design and specifications are subject to change without notice.
- Never service or remodel the TV by yourself. It may expose you to a fire hazard or dangerous voltages.

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Pre-Installed Software	EULA
AC3 decoder liba52.c	Exhibit A

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